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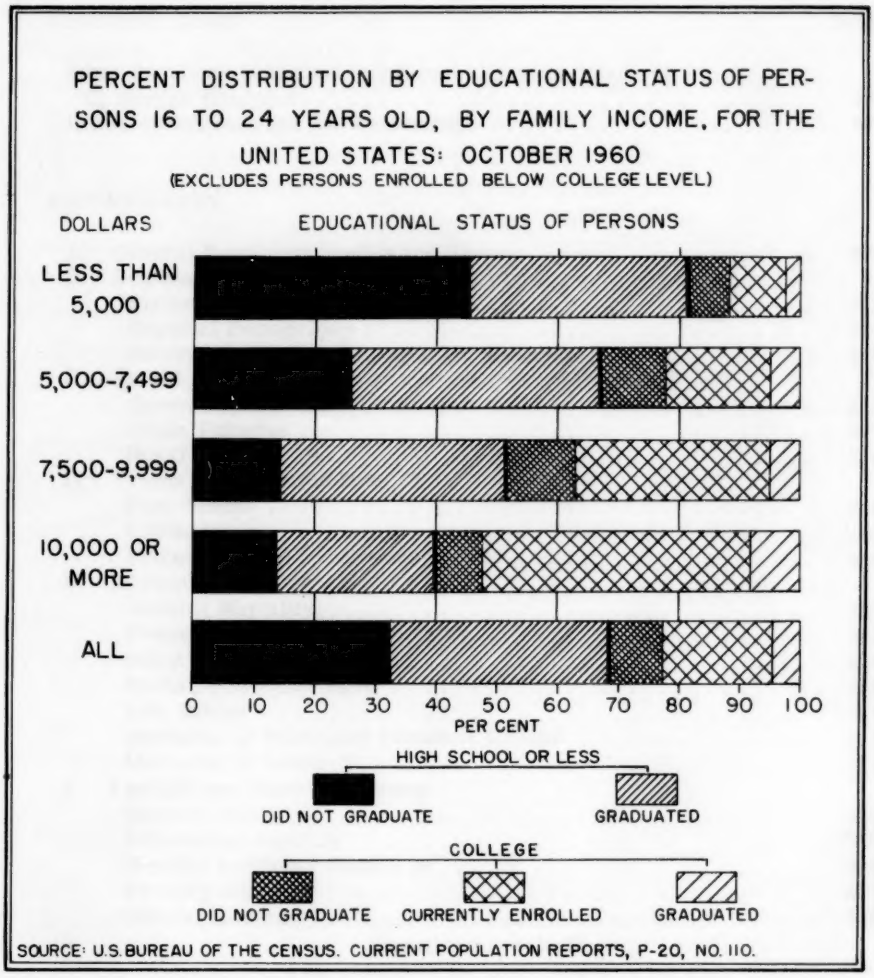

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POPULATION INDEX

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CURRENT ITEMS

SOME PROBLEMS OF METHOD IN INTERNAL MIGRATION RESEARCH

It may be that most population research workers not only think that their own specialty, in comparison with other specialties, is more interesting, more challenging, more important, but also that its methodological problems are more complex. If such professional sectionalism does exist, your speaker cannot say that he is an exception to the rule. But he does have an "out." He has never considered himself as a member of any particular research clique. Although he has done more work in the field of internal migration than in any other specialty, he has ranged far and wide in other divisions of population analysis, including fertility, mortality, health, welfare, medical care, distribution, ecology, and population growth.

But even if most of us are overenthusiastic with respect to one division of population research or another, we need not be apologetic about it. Specialty pride and enthusiasm are important sources of motivation. They are justified provided the research worker has a sense of humor and is broad-minded enough to concede the same feelings and enthusiasms to fellow workers in other fields.

Although it might have been more appropriate to discuss some topic of more general interest to the membership of this organization, I have chosen a subject in line with my major and current interest. I am convinced that it is not only of great importance, but also timely and appropriate for this occasion. It is timely because our new Census is now in the process of publishing a vast amount of new data which can be used in migration research. Its importance can be measured in terms of the recent appropriation by Congress of $394,000,000 for the relief of distressed areas, whose ills are to some extent related to the failure of migration to bring about a balance in the supply and demand for labor.

Some of the things that I wish to say have a broader application than to the subject of internal migration. Many of the problems in method that migration researchers have are similar to those of all social scientists and particularly to those of other demographers.

May I hasten to add that it is not my intention to cover the entire field of research method in migration studies. Such a comprehensive approach is not needed here, and if it were, there would not be time for it. For those of you who would like a systematic and thorough review of general methodological problems of internal migration research, I recommend Don Bogue's excellent chapter on "Internal Migration" in The Study of

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Editor's Note.—This is the text of the address delivered by C. Horace Hamilton, President of the Population Association, at the banquet on the evening of May 5, 1961, at the Barbizon Plaza Hotel, New York City, as part of the annual meeting of the Association. It is hoped that in future we may each year publish the Presidential Address in the October issue of Population Index.

Population, edited by Hauser and Duncan. Bogue's bibliography includes some 66 reference to other social scientists who have made substantial contributions in method.

The Problem of Data

The movement of a person in space from one point to another is, like the tossing of a coin, a simple physical event. It is a common experience that can be objectively defined and observed. The number of people who move from area A to area B and from area B to area A during period T can be counted, and their characteristics can be observed and recorded. Likewise, the characteristics of areas A and B can be observed and recorded. Other relevant events in the lives of the people, movers and nonmovers, and in the areas can also be observed and recorded.

With these few facts at hand, the study of population mobility should proceed in a simple, straightforward manner. Rates of mobility, proportions of people who move in, out, and between two or more areas can be computed, and comparisons can be made between people having different classes of characteristics. The volume and character of in- and outmigration can be determined, and the net effect on the population of the various areas can be observed. The interchange of populations between large numbers of places and areas can be determined, and related to such factors as distance, numbers of people in and between the various places and areas, incomes, levels of living, employment and unemployment, housing, taxation, transportation, institutions, and services.

From these simple facts, types of mobility, or of migration streams, can be differentiated, and intensive surveys and case studies made within types for the purpose of discovering the operation of psychological, social, and economic factors in the migration process. Thus, as any one can see, the study of internal migration should be relatively simple, and a set of reliable generalizations covering the field should be accumulated in no time at all.

Statistical Complexity. But about here we must quit dreaming and begin talking about realities. In spite of the apparent simplicity of the statistics of human mobility in physical space, the study of such phenomena, like the study of probability, is fast becoming, if it has not already become, a complex mathematical science. The little event, the movement of an individual in space from one point to another, has been transformed into an elusive, complex, statistical monster. It can no longer be studied by the simple methods of seventh grade arithmetic. Now we must develop hypotheses, construct logical and mathematical models, use set and game theory, draw multistage stratified random samples of clusters, test null hypotheses, accept or reject alternative hypotheses, control errors of the first and second kind, make parametric and nonparametric tests, and perform complex computations involving analysis of variance and covariance, factor analysis, and multiple correlation and regression—linear and curvilinear. To top it all: even if an individual researcher can perform all these operations with skill and interpret his results wisely, he is wasting his time. The electronic computers have taken over. All the

research demographer needs to know now is what to tell the programmer to tell the computer!

Quality of Data. And then, of course, there is the little, almost forgotten problem of getting enough appropriate, accurate data to feed the hungry electronic brutes. In North Carolina we have partially solved this problem by tabulation of the daily milk production records of all the certified cows in the state! It may or may not be true that many city people think that milk comes from the supermarket, or from cartons delivered by the milkman; but there is danger that the modern demographer will think that the sources of his data are electronic tapes and census volumes. No scientific study is any stronger than its weakest link, and in social research that is the problem of collecting accurate, reliable data. The interviewer and the enumerator should be as well trained and as capable in performing their functions as the statistician is in performing his function.

Many Kinds of Mobility. But I would not have you think that I attribute the growing complexity of migration research to the development of new skills, techniques, and instruments. The apparently simple elementary event of the movement of a body in space is actually not so simple as it looks at first glance. There are a great many different kinds of movements. They vary in terms of distance, frequency, purpose, cause, consequence, and meaning, and in social significance.

Movement which involves a change in usual place of residence from one community to another is classed as a migration. Communities vary in size, type, and complexity—and are difficult to define and delineate. A movement between two small communities within a few miles of each other is not considered to be nearly so significant as one between two large cities, or between a small rural community and a large distant metropolitan center.

The Real Variable. The fact that a person may move more than once within a specified time period, or that he may circulate during the period between two or more places, adds to the complexity of migration statistics. Consequently, the classification of people into a simple dichotomy, movers and nonmovers, or migrants and nonmigrants, is not exactly accurate. The true migration variable consists of 0, 1, 2, 3, or more moves and is very likely a natural Poisson type. In some studies, and for some types of data, it may be convenient and profitable to use the real variable rather than a simple dichotomy. This would be the case, for example, if one were studying migration behavior of the same individuals over a long period of time, as is possible in longitudinal studies and in the use of OASDI data, i.e. social security records.

Variety of Conditions, Characteristics and Causal Factors. The heterogeneity of migration statistics is further complicated by the potentially large number of characteristics of individuals, of communities of origin and destination, and of other variables which in one way or another are involved in various types of migration. Donald Bogue, in his chapter on "Internal Migration," gives a list of fifty situations, factors, and conditions which likely have some relation to migration./1

Age, sex, color, marital status, employment, are all so highly related to migration that multiple cross-tabulations and large numbers of cases are needed in order to establish reliable uniformities and generalizations. Such heterogeneity of data results in difficult and intricate techniques of analysis and in making an excessive number of minor generalizations: the researcher can hardly see the forest for the trees. His worst enemy is the nature of his data. This problem can best be met by: (1) the limitation of research projects to a small number of important hypotheses, or to selected types of areas and streams of migration (such as rural-farm and nonfarm, rural and urban, metropolitan and nonmetropolitan, central city and fringe, east and west, north and south); (2) limitation of studies to specific population categories (such as college graduates, professional people, construction workers, aged people); (3) concentrating research on specific factors (such as educational selectivity, distance, income and employment, population pressure).

Variety of Scales. The analysis of migration and related statistics is also complicated by the different kinds of scales or forms in which the variables are expressed or measured. Some are simply sets of discrete categories, i.e., nominal scales; some are simple dichotomies; some are ordinal; some are cardinal; and others are hybrids, such as the ordered metric scale. Incorporation of different types of scales in the same multivariate model creates messy, if not impossible, computational problems. Unfortunately, neither the college textbooks in social statistics nor those in population analysis provide the demographer with analytical tools needed for handling these diverse forms of data in the same problem.

The Survey Method

The cost and difficulty of collecting primary data on migration by the survey method is a factor seriously limiting the amount of scientific internal-migration research. Over the past fifty years, hundreds of small field surveys that included some questions on population mobility have been made. The limitations of these studies are well known: they are limited to small samples representative of only a small segment of the nation's population; they are usually limited to certain population categories or to either in- or -out-migration; and they are not large enough to permit detailed analysis and the making of many generalizations. Nevertheless, the accumulation of the results of these surveys over the years has increased our insights, and has led to the testing of new hypotheses and to the designing of better surveys. There is still a great opportunity for sound migration research by the survey method. Repeated surveys in the same communities and areas—the longitudinal approach—would increase greatly the effectiveness of the method.

Census Data as a Source

The use of Census data presents both opportunities and problems. Their coverage, in terms of time, area, and population, makes it possible

to discover trends and uniformities broadly applicable to historical and cultural epochs and to the life cycle of great nations. Such generalizations are of value to other nations which are following, or may yet follow, similar patterns of social and economic development.

Underuse of Census Data. It is to be regretted that more use has not been made of the extensive migration data of the 1950 United States Census. Possibly too few social scientists are aware of the research potentials (and limitations) of these data, and even less aware of the methods available for blasting scientific truth out of them. (Perhaps it would help the researcher if the Census Bureau would provide a simple set of instructions with each table—much on the order of the instructions for cooking found on frozen foods—a sort of Census research cook book. For example, "How to Digest Table 19, Special Report P-E No. 48, in Three Easy Lessons.")

The meticulous research worker, accustomed to handling small amounts of sample data, tends to be overcome with the sheer mass of Census statistics which can be used to study internal migration. I suspect, too, that the average sociologist and economist, being heavily burdened with teaching and other duties, is quite willing to "let George do it" when it comes to analysis of Census migration statistics. The trouble with this attitude is that there are too few Georges—too few Donald Bogues, Dorothy Thomases, and Henry Shryocks. The profession needs more research workers giving full time to migration study.

Area Size and Tabulation Problems. I am, of course, aware of other attitudes toward Census data, their quality and adaptability for research in internal migration. On the one hand, we hear that there is not enough small-area data and, on the other, that there are not enough detailed cross-tabulations of social characteristics with migration. The fact is that these two wishes are not entirely compatible. We do need as much small-area data as we can get; and for large areas (such as regions and divisions) we also need as many cross-tabulations as we can get. However, it is unrealistic to expect any significant amount of multivariate cross-tabulations of characteristics with migration data for small areas, small migration streams, or even those of intermediate size. I am convinced that multivariate cross-tabulations of characteristics with migration data reduce the need for small- and intermediate-area data where cross-tabulations can only be made with one variable at a time. For example, a table showing the relationship of education to migration for state economic areas (or for any other small areas) is of little value unless age is controlled. We can afford to be indifferent to small areas where adequate multivariate cross-tabulations are provided for large areas. In order to get cross-tabulation detail we can also afford to be indifferent to color and even sex in some cases.

All that I am saying here is, as Karl Pearson said long ago, that space and time have no essential substantive reality./2 They serve only as convenient frames in which to arrange and correlate distinctive cultural, social, and economic patterns with migration phenomena.

Migration Streams. The study of specific migration streams presents peculiar and difficult problems. From the standpoint of multivariate

detail we have the same problem with small streams that we have with small areas: the smaller the stream, the fewer cross-tabulations can be economically provided. Cross-tabulations of all counties and cities, or of all state economic areas, can be used in relating migration to distance and are useful for that purpose. However, we can afford to be indifferent to the individual identity of the thousands of small migration streams, like the minute branches of a great river system. What is needed, and what we already have to some considerable degree, is detail for large migration streams obtained by classifying places of origin and destination in various ways, such as rural, urban, metropolitan.

Net Migration Estimates

Much of what I have said is applicable primarily to Census data, based on questions relating to place of residence at some date previous to dates of census-taking. Such data are obviously superior in many ways to estimates of net migration obtained by either the vital-statistics or the survival-rate methods. The advantages, disadvantages, and peculiar problems of these different methods and types of migration data have been discussed quite fully and adequately by Don Bogue, Dorothy Thomas, Everett Lee, and others./3

It should be emphasized, however, that net-migration estimates by one of the residual methods provide for a decade the only large set of migration statistics covering not only the total population of the nation but also that of counties, cities, states, economic areas, divisions, and regions, with age, sex, color, residence breaks. It is also possible to study net migration by educational level, age, sex, color, and residence down to areas as small as states.

An important and useful function of the net-migration approach is that it can, and does, show the net selective effect of population migration on the characteristics of population. Net migration rates, as is the case with gross migration rates, may also be correlated with any number of independent variables as a means of studying the causal and conditioning factors in the migration process.

Unfortunately, because of changes in the definition of the rural-farm population, it will not be possible to study net migration from farms during the 1950-1960 decade. Calvin Beale and Gladys Bowles, in a recent paper, have shown the effect of these changes on the 1960 farm population of the nation./4 The net effect is that the rural-farm population of 1960 is approximately 21 per cent less than it would have been by the 1950 definition. Thus, we have not only succeeded in sweeping four million farm problems under the statistical rug, but we have at the same time eliminated a vast amount of professional labor on the part of the agricultural economists and rural sociologists, who would like to use the net-migration estimates usually made by the Farm Population and Rural Life Branch of the United States Department of Agriculture!

Fortunately, it will still be possible to make net-migration estimates for the rural and urban segments of the counties and states of the nation. Here, however, there is the tedious problem of adjusting the 1960

populations for changes in urban boundaries. It is to be hoped that this important work will be done either by the Farm Population Branch or by some other agency equipped with the needed skills and tabulating machinery.

Problems of Analysis

Although I hold the philosophy that the most effective statistics are those that are simple, straightforward, and easy to understand, I realize, too, that such advanced and complex techniques as analysis of variance, co-variance, and multiple regression, properly used and interpreted, are useful tools in the hands of a capable operator.

It is recognized, also, that the nature and limitations of the data available lead the researcher to use one of these techniques, or possibly some combination of them. In the ideal situation where all possible combinations of independent variables, or sets of nominal characteristics, have been cross-tabulated with a migration rate as the dependent variable, a multi-way analysis-of-variance model may be used as a means of breaking the total variance down into its component parts, consisting of all the main and interaction effects, and of determining the proportion of the total variance of the dependent variable that can be explained by the association with the independent variables. In this model, it is also possible to include characteristics of areas of origin and destination; and the dependent variable may be expressed in terms of in-migration, out-migration, or net migration.

The analysis-of-variance model is suitable for more than explanatory purposes. The rates of the ultimate cells of the table may be used as prediction coefficients when applied to similar population subclasses.

Unfortunately, the Census Bureau cannot, for one reason or another, provide all the cross-tabulations needed for a complete analysis of all the information available. The researcher must either use what he can get or go over to a multiple-regression model based on areas as units of observation.

Limitations of Analysis of Variance and Multiple Regression. There are several logical and mathematical problems in the use of analysis of variance and multiple-regression models which have not, in my opinion, been satisfactorily resolved. The use of group and area means as units of measurement, in analysis of both variance and multiple regression, leaves unexplained the variance within subclasses and areas. In studies of mortality and levels of living, and in net migration, I have found that the usual procedures resulted in greatly exaggerated estimates of explained variance. In some cases, where analysis of variance and multiple regression indicated explained variance running as high as 75 to 90 percent, the true percentage of explained individual variance was found to be less than from 15 to 20 percent, and frequently much smaller. Although I have seen some apparently logical defenses of the use of group and area means as measures, I have not been satisfied with them.

Our objective, statistically speaking, is to account for all the variance in the dichotomal migration variable in the population about which we

wish to generalize. This variance is the product of the migration rate and its complement, i.e. PQ. For operational purposes, this objective may be expressed in terms of sums of squares which, in the case of dichotomal variables, is NPQ, N being the number of people subject to the "risk of migration," i.e. the number of people who could have migrated. Even though it may be impossible to explain or account for 100 percent of the sums of squares, or of the variance, such a goal serves as a measure of the success of our efforts.

Unexplained Variance. In cases where proportions or true rates of migration are used as dependent variables, it is possible to determine, not only the total individual variance to be explained, but also the unexplained variance within cells. With these two pieces of information it is possible to determine the real proportion of total variance which has been explained by analysis either of variance or multiple regression. As I said before, the results are usually quite deflationary. It may be concluded, therefore, that even if we had all the Census data on migration cross-tabulated with every other characteristic, or piece of information available, we would still be far, very far, from our scientific goal of explaining 100 percent of the variance in migration. To approach this goal more closely we would have to obtain reliable quantitative information on all of Bogue's fifty factors, to which I referred a few minutes ago!

If this makes you feel pessimistic about ever explaining migration behavior, just remember that the goal of social science in many other areas is also far from being achieved. Migration is a complex behavioral problem. If we are ever able to explain it fully, we shall at the same time have gone a long way toward understanding human behavior in general. Another consoling thought is that if the statisticians were able to explain human-migration behavior easily and successfully by means of mathematical models and computers, there would soon be little work left for sociologists and economists who are not high-powered mathematicians!

Use of Migration Research in Predicting Population Growth

Because of the great interest in future population growth of both large and small areas, attempts have been made to use migration research as a tool for improving the population predictions and projections. These efforts are based on the fact that migration and natural increase are the two major components of population change and on the belief that predictions of population change can be made more accurately if these two components are handled separately. There is some justification for this point of view, because of the relation of each of these components to the demographic composition of the population (age, sex, race, marital status, etc.), and because each component (migration, births, and deaths) is differently related not only to the demographic factors but also to external conditions and influences.

However, as we all well know, the prediction of future population changes is a hazardous undertaking. At least the amount of migration directly attributable to demographic factors is small, and the prediction equations are all based on the conditions and events of the recent past.

It can be shown that, with other factors constant, a surplus of natural increase in one area will migrate to another area that has a natural increase deficit, but that the age distribution of the natural deficits and surpluses must be taken into account. A large percentage of internal migration is closely related to the age factor. For example, a relative surplus of babies in an area might not "cause" outmigration, unless there was also a relative surplus of working parents of the babies. Possibly, trained demographers can utilize such information in improving predictions of future migration; but in the final analysis, the future population of any area, and hence, migration to and from the area, are functions of economic and social changes that are difficult to predict. If we are going to try to predict the amount of migration to or from any given area we must, therefore, turn to a study of the long-term economic and social influences, and adjustment processes, that may either stimulate or limit migration to an area.

For example, in the case of agriculture, it can be expected that the present cycle of technological change and improvement in labor efficiency will continue for a decade or so and that migration from rural areas will continue. Detailed studies of particular types of farming could possibly improve our estimates of the expected amount of out-migration from certain areas. Possibly, also, detailed studies of the changing need for labor in other industries and occupations could improve our estimates of migration to and from other areas. To supplement this type of analysis, detailed studies of the growth and decline of the economies of the various regions and metropolitan areas of the nation are needed.

But with all these different avenues of research completely exploited, there would still remain many unknowns in an estimating or prediction equation. Each researcher must decide for himself whether the difficult and tedious work involved in introducing migration estimates into his prediction equations is worthwhile.

Conclusion

The need, the demand, and the opportunities for research in internal migration were never greater than they are today. The increased need for such research grows out of the dynamic character of modern society. Rates of technological, social, and economic change have speeded up, and have created a greater need for social and geographical mobility of workers and members of their families. The rapidly rising levels of living and of real incomes have opened up new occupations and industries, and have expanded the need for labor in many old industries and occupations.

On the other hand, scientific discoveries, technological developments, changes in ways of living and in social organization have restricted opportunities for gainful employment in many occupations and industries. Agriculture is a prime example: but the trend may be seen also in many nonagricultural industries and occupations. Automation is even reducing the amount of labor needed in many service occupations.

Obviously, these changes in sources of jobs involve migration from one community to another. There is, therefore, an increased need for a better understanding of the extent and character of internal migration and the role that it plays in the process of economic and social adjustment.

The increased demand for the products of migration research is coming from administrators, social scientists, and policy-makers who, for one reason or another, are interested in economic development and in the relation of human migration to the functions and responsibilities of government and other social institutions. For example, in my own field of interest the demand for knowledge about rural-urban migration as it relates to agricultural adjustment and public policy has increased greatly. Questions such as the following are being asked:

"In view of the rapid development of new agricultural practices and of the increasing size of farms, should not more people leave farms and seek employment elsewhere?"

"Under what conditions and for what inducements will more rural people move to nonagricultural occupations and communities?"

"Assuming continued national economic growth, including an increase of the nation's population (of something like 3,000,000 each year), and assuming a continuation of the increase in the productivity of agricultural labor, how many people will likely move out of agriculture during the next ten years?"

These questions and others like them, and their corollaries, have many ramifications. They are complex. The kind of research required to answer them is not simple. Much of the data needed are not readily available, and available methods of research and analysis are not altogether satisfactory.

The point I want to make here is that there is greatly increased demand for the products of migration research; and this provides an opportunity and a challenge, not only for those of us who have been working in these fields for a number of years, but also for new talent. Unless social scientists, trained in demography, take advantage of this increased demand for migration research, others, not so well equipped or experienced, will move into the area. If such should happen, we can expect to see, within the next decade, a lot of superficial migration research, naively conceived, poorly designed, and inefficiently executed. It goes without saying that the present generation of experienced demographers, doing migration research, should continue to sharpen their tools, improve their research designs, and invent and develop new techniques of analysis.

In closing I should express the hope that, in spite of the difficult methodological problems involved in migration research, more of the younger generation of demographers and social scientists will see the opportunities and specialize on internal migration research. The road is rough, but the rewards and satisfactions in research achievement are great.

FOOTNOTES

1/ Hauser, Philip M., and Duncan, Otis Dudley, Editors. The study of population: inventory and appraisal. Chicago, University of Chicago Press, 1959. Pp. 499-501.

2/ Pearson, Karl. The grammar of science. New York, Meridian Books, 1957. First published in England in 1892. See Chapter VI, Space and time.

3/ Hauser and Duncan. Op. cit., pp. 507-509.

4/ Beale, Calvin L., and Bowles, Gladys K. The 1960 definition of farm residence and its marked effects on farm population data. Paper presented at the annual meeting of the Association of Southern Agricultural Workers, Jackson, Miss., Feb. 6-8, 1961. Washington, U. S. Agricultural Marketing Service, 1961. 10 pp., processed.

RESEARCH INTERNESHIPS AND FELLOWSHIPS

The University of Michigan Population Studies Center has been organized to expand the existing programs of training and research in population studies centered in the Sociology Department. Professor Ronald Freedman is the first Director of the Center. Professors Amos H. Hawley and David Goldberg are Associate Directors.

Research interneships and fellowships are offered by the Center for graduate work in sociology or other departments for students with a major interest in population problems. Stipends range from $600 to $2700. Travel grants are available also for a limited number of foreign students coming to the United States and for advanced American students planning field work abroad.

A program of research in population and public policy is jointly sponsored by the Center and the Institute of Public Administration. In addition the major research activities of the Center will deal with population distribution and organization, migration, social factors affecting fertility, and comparative population analysis. The Center will also develop in time a co-operative program with one or more universities or institutes abroad for research and training in population studies. The basic program of the Center is supported for seven years by a grant from the Ford Foundation.

Application for graduate stipends and additional information may be obtained by writing to the Director, University of Michigan Population Studies Center, Sociology Department, The University of Michigan, Ann Arbor, Michigan.

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of official publications of national governments is facilitated by accession lists and occasional other aid from several government agencies.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that have been listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °.

A list of the sources used in the preparation of this bibliography appears with the cumulative index for Volume 26. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

A.A. - African Abstracts. (International African Institute.)
A.E.S.C. - Annales: Economies, Sociétés, Civilisations.
B.A.D. - Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation National des Sciences Politiques.)
C.G.P. - Current Geographical Publications. (American Geographical Society.)
D.I.L. - List of Accessions. (U. S. Department of the Interior. Library.)
E.A. - Economic Abstracts. (Netherlands. Library of Economic Information.)
I.L.R. - International Labour Review.
J.R.S.S. - Journal of the Royal Statistical Society.
L.C.C.D. - Library of Congress. Card Division. [Weekly Proofsheets.]
P.A.I.S. - Bulletin of the Public Affairs Information Service.
P.R.T. - Population: Revue Trimestrielle.
S.A. - Sociological Abstracts.
S.A.S.S.B. - Southern Asia Social Science Bibliography. (Unesco Research Centre on the Social Implications of Industrialization in Southern Asia.)
T.A. - Tropical Abstracts. (Netherlands Royal Tropical Institute.)

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

A. GENERAL POPULATION STUDIES AND THEORY

4001 Barberi, Benedetto.
Classification of communes according to urban and rural characteristics. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):515-520. 1961. French summary.

Description of method employed by the Italian Central Institute of Statistics for calculation of coefficients, based on ten

demographic and ecographic variables. See also 27: Title 3257.

4002 Barberi, Benedetto.
Statistical aspects in the theories of economic growth. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):29-53. 1961. French summary.

"In the first section of this paper ... will be briefly illustrated a few principal observational aspects of the phenomena of growth, within the framework of a general scientific methodology. In the second section are considered some interpretative aspects of economic growth, in dealing with which we are led to consider the theoretical schemes which seem more suitable to represent the law of development. As an application of the preceding points, some of the principal characteristics of the economic growth of Italy in the last hundred years are illustrated in the third part." Demographic growth is included.

4003 Bruner, Edward M.
Urbanization and ethnic identity in North Sumatra. American Anthropologist 63(3): 508-521. June 1961.

"The problem of this paper is to ascertain why the theory of urbanization formulated by Maine (1861), Tönnies (1887), Wirth (1938), and Redfield (1941, 1947) does not apply to some urban centers in Southeast Asia." Case study of the Toba Batak among whom the author spent a year in 1957-58, seven months in an interior village and five in the modern coastal city, Medan.

4004 Burgess, Ernest W., Editor.
Aging in Western societies. Chicago, University of Chicago Press; Cambridge, Cambridge University Press; Toronto, University of Toronto Press, 1960. xvi, 492 pp.

Prepared under the auspices of the Interuniversity Training Institute, University of Michigan.

Contents:

Burgess, Ernest W. Aging in Western culture.

Hauser, Philip M., and Vargas, Raul. Population structure and trends.

Wolfbein, Seymour L., and Burgess, Ernest W. Employment and retirement.

Cohen, Wilbur J. Income maintenance and medical insurance.

Donahue, Wilma. Housing and community services.

Peterson, Vera J., and Peterson, Jerome S. The health of the aging.

Keemeier, Robert W. The mental health of the aging.

Burgess, Ernest W. Family structure and relationships.

Havighurst, Robert J. Life beyond family and work.

Anderson, John E. Research on aging.

Burgess, Ernest W. Résumé and implications.

4005 Burnet, F. Macfarlane.
2000 A.D.—a biologist's thoughts on the next forty years. Eugenics Review 53(1): 25-32. April 1961.

4006 Cantarelli, Davide.
La "Economia della Popolazione" di G. Mortara [The "Economics of population" of G. Mortara]. Giornale degli Economisti e Annali di Economia (Padua) 20 (1-2):118-136. Jan.-Feb. 1961.

An extended review of the work cited in 26: Title 4027.

4007 Castellano, Vittorio.
L'Istituto di Statistica della Facoltà di Scienze Statistiche Demografiche ed Attuariali nel quinquennio 1955-60 e il problema della ricerca scientifica [The Institute of the Faculty of Statistical, Demographic and Actuarial Sciences in the five years 1955-60 and the problem of scientific research]. Statistica (Bologna) 21(1):19-51. Jan.-March 1961.

Includes survey of teaching and scientific activities and publications.

4008 Centro Latino-Americano de Pesquisas em Ciências Sociais.
Instituições de ensino e pesquisa: Brasil: São Paulo e estados do Sul e centro [Institutions of teaching and research: Brazil: São Paulo and states of the South and center]. As Ciências Sociais na América Latina, Publicação 16. Rio de Janeiro, 1960. [ii], 91 pp., processed.

4009 Coale, Ansley J., and Foerster, H. von, et al.
Population density and growth. Science 133(3468):1931-1937. June 16, 1961.

An exchange of comments on the views expressed in the article cited in 27:Title 2150.

4010 Doctor, Kailas.
Statistical work of the International Labour Organisation. Sankhyā, Series B (Calcutta) 23(1-2-3):55-67. Dec. 1960.

Historical background and functional analysis of current operations.

4011 Esenwein-Rothe, Ingeborg.
Neuere Literatur zur theoretischen und politischen Bevölkerungswissenschaft [Recent literature on demographic theory and policy]. Jahrbuch für Sozialwissenschaft (Göttingen) 12(1):101-117. 1961.

The first part deals with reference works and source materials on the construction and interpretation of population projections. The second part deals with the literature of population projections in the 20th century, with especial reference to international migration, forced migration, internal migration, and change of residence.

4012 Goodman, L. A.
Some possible effects of birth control on the sex ratio. Annals of Human Genetics 25(1):75-81. May 1961.

"Formulas are presented indicating some of the ways in which the sex ratio can be modified as a result of the use of birth-control methods. These formulas lead to different conclusions from those presented in the earlier literature on this subject."

4013 Gordon, John E., et al.
A field study of deaths and causes of deaths in rural populations of the Punjab, India. American Journal of the Medical Sciences 241(3):359-382. March 1961.

Report on part of the findings of a three years' field study of the total population in eleven villages of northern India, January 1957 to December 1959. Comparison of official rates with observed rates, for general, infant, and neonatal mortality and general mortality by cause. Evaluation of data on trends over past 15 years and of prospects. For description of the study of which this is a part see the paper cited in 27: Title 2477.

4014 Hůrský, J.
Vymezování skupinových sídel (aglomerací) [Classification of agglomerations]. Statistický Obzor (Prague) 41(5):210-215. May 1961. English summary.

Proposal of seven characteristics "for a complex indicator" of agglomeration.

4015 Idenburg, Ph. J., and Schmitz, J.
A new approach to the urban-rural classification. A typology of the municipalities according to degree of urbanisation in the Netherlands. Bulletin de l'Institut International de Statistique (Tokyo) 38(2): 529-538. 1961. French summary.

4016 Kendall, Maurice G.
Natural law in the social sciences. Journal of the Royal Statistical Society, Series A 124(1):1-19. 1961.

Presentation of the case for comprehensive model building.

4017 Li Choh-Ming.
Communist China's statistical system: 1949-57. American Economic Review 51(2):499-507. May 1961.

Presentation of the first part of the main conclusions of an "attempt to appraise the quality of official statistics through a study of the development and the inner working of the system.... This study relies heavily on the information given in the complete set of official journals of the State Statistical Bureau of Peiping, published between April, 1954, and February, 1959."

4018 Nixon, J. W.
A history of the International Statistical Institute, 1885-1960. The Hague, International Statistical Institute, 1960. viii, 188 pp.

"The Institute's pioneer efforts in the field of official statistics, especially in demography and economic statistics, are recounted in Part III." [J.R.S.S., Ser. A, 124(1)]

4019 Orcutt, Guy H., et al.
Microanalysis of socioeconomic systems: a simulation study. New York, Harper and Brothers, 1961. xviii, 425 pp.

"This book has presented the general concepts and framework of microanalytic models, their simulation, and their application. A limited demographic model of the United States was developed, simulated, and used as a specific example of the more general ideas contained in this book and as a demonstration of the technical feasibility of simulating and using microanalytic models in dealing with aggregative aspects of our economy. In addition various exploratory starts were made in extending the range of phenomena encompassed by the present demographic model." The extension of the model of the household sector includes a labor-force model. Notes on computer simulation of the models and on analysis as the basis for predicting U. S. demographic behavior, 1950-1960.

4020 Petersen, William.
Population. New York, Macmillan,

1961. xx, 652 pp.

A textbook "to introduce the reader to ... the systematic study of population phenomena in relation to their social setting. ... Part I ... is entirely on the population of the United States. In these ten chapters the emphasis is on introducing the reader to demographic concepts and describing the population phenomena of this country. In Part II the population of societal types different from those in the United States is analyzed." Chapters deal with populations of primitive societies, preindustrial civilizations, the industrial revolution, totalitarian societies, and underdeveloped countries. Then "general (that is, not culture-bound) determinants of fertility, mortality, and migration, and thus of population growth ... are analyzed in the four chapters of Part III." Appendix: Some notes on the techniques of population analysis. Suggestions for further reading follow each chapter.

4021 Reinhard, Marcel R., and Armengaud, André.

Histoire générale de la population mondiale [General history of world population]. Paris, Editions Montchrestien, 1961. V, 597 pp.

An expansion and revision of the work cited in 15(4):Title 1595. Parts: (1) from prehistory to the nineteenth century; (2) expansion of the European population in the century of liberalism; (3) European expansion and its demographic consequences (1815-1914); (4) demographic imbalance in the century of the masses and of technologies.

4022 Sanyal, S. N.

A short history of the development and progress of research on biological contraceptives. Journal of Indian Medical Association (Calcutta) 35:552-561. Dec. 16, 1960.°

4023 Sauvy, Alfred.

La responsabilité du statisticien devant l'opinion et les pouvoirs publics [The responsibility of the statistician in relation to public opinion and public authority]. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):573-578. 1961. English summary.

4024 Silva Michelena, J.

El estado actual de las ciencias sociales en Venezuela [The present state of the social sciences in Venezuela]. Rio de Janeiro, Centro Latino-Americano de Pesquisas em Ciências Sociais, 1960. 44 pp.°

4025 Stevenson, A.C.

Modern trends in the population genetics of man. Eugenics Review 53(1):9-15. April 1961.

4026 United Arab Republic. Egyptian Association for Population Studies.

The Egyptian Association for Population Studies, May 1960. Cairo, 1960. [vii], 180 pp.

Report on the work of the first six years of the Association, including reports on studies by the Economic Committee, the Demographic Committee, and the Medical Sub Committee in charge of work in family planning units.

4027 United Nations. Population Commission.

Report of the eleventh session (7-17 February, 1961). Economic and Social Council Official Records: 31st Session. Supplement 3. E/3451. E/CN.9/165. New York, April 1961. 22 pp.

Summary of the proceedings. Appendix includes list of working papers presented by the Secretary General.

4028 Walter, Emil J.

Kritik einiger familiensoziologischer Begriffe im Lichte der politischen Arithmetik des 18. Jahrhunderts [Critique of some family-sociology concepts in the light of the political arithmetic of the eighteenth century]. Schweizerische Zeitschrift für Volkswirtschaft und Statistik (Bern) 97(1): 64-75. 1961.

Examination of current hypotheses on the relation between industrialization and family size as applied to data on numbers of houses, households, and family size in rural and urban districts of Switzerland (the Gemeinde of St. Peter and the city of Zurich).

4029 Westoff, Charles F., et al.

Family growth in metropolitan America. Princeton, Princeton University Press, 1961. xxii, 433 pp.

Analytical report of the results of the first phase of a longitudinal study of 1,165 American couples in metropolitan centers to whom a second child was born in September 1956.

Contents of text: Introduction (Background, objectives, and approach; Study and

sample design; Methodology). Fertility variables (Fecundity; Contraception; Birth intervals; Preferred birth intervals; Desired family size; Summary). Social and psychological determinants (Concepts and hypotheses; Religion, class, and fertility; Religiousness; Socio-economic status; Social mobility; Residence and migration [by Clyde V. Kiser]; Age and sex composition of the family; Social relations within the family; Personality characteristics; Summary multivariate analysis). Resurvey (The next phase of the study). Appendices present supplementary material on fecundity, contraception, index construction, and significance levels of correlation coefficients. Also list of related publications. Tables in text, 112; in appendix, 41.

4030 Williams, Bismarck S.
A reasoned approach to 1960 metropolitan population data: controversial definitions. Business and Society 1(2):30-33. Spring 1961.

[See also Titles 4031, 4042, 4067, 4071, 4087, 4158, 4307, 4308, 4313, 4315, 4316, 4318, 4321, 4337, 4345, 4363, 4367-4369, 4374, 4375, 4389, 4391, 4393, 4402, 4430, 4463, 4466, 4474, 4483, 4485]

B. REGIONAL POPULATION STUDIES

Historical Studies

4031 Campbell, Mildred.
"Of people either too few or too many"; the conflict of opinion on population and its relation to emigration. Pp. 169-201 in: Aiken, William A., and Henning, Basil D., Editors. Conflict in Stuart England: essays in honour of Wallace Notestein. London, Jonathan Cape; New York, New York University Press, 1960. 271 pp.
A study of population estimates and of emigration policy.

4032 Carriere, J.
Le population d'Aix en Provence à la fin du XVIIe siècle [The population of Aix-en-Provence at the end of the seventeenth century]. Aix-en-Provence, La Pensée Universitaire, 1958. 119 pp.°

4033 Churcher, C. S., and Kenyon, W. A.
The Tabor Hill ossuaries: a study in Iroquois demography. Human Biology 32:249-273. Sept. 1960.
Report of analysis of bones from two burial sites in York County, Ontario, identified as Iroquois in origin and 700 years old. Reconstruction of age-sex structure of the communities, estimates of population size and death rates, and tabulation of skeletal measurements.

4034 Eisner, Gisela.
Jamaica, 1830-1930: a study in economic growth. Manchester, Eng., Manchester University Press, 1961. XXIII, 399 pp.
Part II presents statistics and analyses of sources for the components of change in the slave and the free population (vital and migration statistics, censuses and estimates, data on manumissions, sex ratios by ethnic group).

4035 Ganiage, Jean.
La population européenne de Tunis au milieu du XIXe siècle; étude démographique [The European population of Tunis in the middle of the nineteenth century; demographic study]. Publications de la Faculté des Lettres de Tunis. Paris, Presses Universitaries de France, 1960. 104 pp.
A study based on the data of parish registers. [A.E.S.C. 16(2)]

4036 Györffy, György.
Einwohnerzahl und Bevölkerungsdichte in Ungarn bis zum Anfang des XIV. Jahrhunderts [Number of inhabitants and population density in Hungary up to the beginning of the fourteenth century]. Studia Historica Academiae Scientiarum Hungaricae, 42. Budapest, Akadémiai Kiadó, 1960. 31 pp.°

4037 Hayden, Albert A.
Governmental assistance to immigration to New South Wales, 1856-1900. Ann Arbor, University Microfilms, [1959]. Microfilm copy of typescript: vi, 284 pp.
Thesis, University of Wisconsin, abstracted in: Dissertation Abstracts 20(3): 1005-1006. 1959.°

4038 Hélin, Etienne.
La population des paroisses liégeoises aux XVIIe et XVIIIe siècles [The population of the parishes of Liège in the seventeenth and eighteenth centuries]. Commission Communale de l'Histoire de l'Ancien Pays de Liège, Documents et Mémoires, 4. Liège, Editions de la Commission ..., 1959.

432 pp. and folding maps.

Documented study, parish by parish, based on civil records of many kinds. [P.R.T. 16(1)]

4039 Landgraf, H.

Bevölkerung und Wirtschaft Kiels im 15. Jahrhundert [The population and economy of Kiel in the fifteenth century]. Neumünster, Wachholtz, 1959. 159 pp. °

4040 London. Corporation of London. Library Committee.

London rate assessments and inhabitants lists in the Guildhall Library and the Corporation of London Records Office. London, 1961. 50 pp.

"The following list ... attempts to bring together under appropriate headings all the rate assessments and inhabitants lists available in the Library and the Corporation of London Records Office (CLRO). Although comprehensiveness has been the aim, lists of collections on briefs and some insubstantial lists have been excluded; where lists appear in vestry minutes or churchwardens' accounts, only those prior to 1770 have been included."

4041 Meszáros, István.

Történéti statisztikai források a török hódoltság korából [Sources of Hungarian statistics for the period during which Hungary was occupied by the Turks]. Statisztikai Szemle (Budapest) 38(5):501-515. May 1960. English summary.

4042 Nadal Oller, Jorge.

La contribution des historiens catalans à l'histoire de la démographie générale [The contribution of Catalan historians to the history of demography in general]. Population (Paris) 16(1):91-104. Jan.-March 1961. Translated by Enrique Borrell.

Periods discussed: 1348-1654; 1654-1808; 1808-1857. Includes tables of births per year in Barcelona, Gerona, Lérida, and Tarragona, 1601-1700.

4043 Rashin, A. G.

Formirovanie rabochego klassa rossii [The formation of the Russian working class]. Moscow, Izdatel'stvo Sotsial'no-Ekonomicheskoi Literatury, 1958. 623 pp.

For an extended review by Gaston V. Rimlinger, entitled, The expansion of the labor market in capitalist Russia: 1861-1917, see Journal of Economic History 21(2):208-215. June 1961.

"The value of this study, an expansion and elaboration of a work published in 1940, lies in both over-all and sector estimates of the growth and composition of the work force, and in detailed data on specific aspects of the movement from the land to the factory."

4044 Rogers, Ellen S., and Easter, Louise E., Editors.

1800 census of Kent County, Delaware. Transcribed and edited by.... Bladensburg, Md., Genealogical Recorders, 1959. v, 104 pp. °

1800 census of New Castle County, Delaware. Transcribed and edited by.... Ibid., 1960. 112 pp.°

4045 Rousseau, Raymond.

La population de la Savoie jusqu'en 1861. Nombre d'habitants pour chaque commune des deux actuels départements savoyards, du milieu du XVIIIe au milieu du XIXe siècle [The population of Savoy up to 1861. Number of inhabitants for each commune of the two present departments of Savoy from the middle of the eighteenth to the middle of the nineteenth century]. Ecole Pratique des Hautes Etudes, Section 6, Centre de Recherches Historiques, Collection, Démographie et Sociétés, 1. N.p., S.E.V.P.E.N., 1960. 263 pp.

A critical study of census and other records in the departmental archives and of the literature. [P.R.T. 16(1)]

4046 Russell, Josiah C.

Late medieval Balkan and Asia Minor population. Journal of the Economic and Social History of the Orient, No. 3, 1960. Pp. 265-274.

"Turkish hearth returns of the fifteenth and early sixteenth centuries."

4047 Russell, Josiah C.

The metropolitan city region of the Middle Ages. Journal of Regional Studies, No. 2, 1960. Pp. 55-70.

"Patterns of metropolitan centers in medieval Europe and of cities within regions."

4048 Semmingsen, Ingrid.

Norwegian emigration in the nineteenth century. Scandinavian Economic History Review (Uppsala) 8(2):150-160. 1960.

Summary of historical statistics and the economic conditions in Norway and the

United States settlements.

4049 Staudenraus, P. J.
The African colonization movement, 1816-1865. New York, Columbia University Press, 1961. ix, 323 pp.°

4050 Taeuber, Irene B., and Wang Nai-Chi.
Population reports in the Ch'ing dynasty. Journal of Asian Studies 19(4):403-417. Aug. 1960.

"... we shall limit ourselves to one series of figures and one question. The series consists of the annual pao-chia reports of the Ch'ing dynasty, a series that gave China a population of 278 million in 1780 and one of 432 million in 1851.... the specific question we shall ask is a limited one. Were the data-collecting activities of the Ch'ing pao-chia system so organized and operated that the population of 432 million reported for the year 1851 can be assumed to be an approximate count of the people then present in China?" Aspects considered: the Pao-chia organization and population reports; the expanding system, 1741-80; the mature system, 1780 to 1851; the disintegrating system, 1852-1911; figures and facts.

[See also Titles 4002, 4021, 4028, 4090, 4193, 4209, 4213, 4214, 4276, 4277, 4307, 4366, 4370, 4466, 4477]

Regional Demography

4051 Acsádi, György.
Az 1960. évi Magyar népmozgalom fontosabb adatai [Main features of Hungarian vital statistics in 1960]. Demográfia (Budapest) 4(2):259-268. 1961. Russian and English summaries.

"The paper deals successively with the crude indices of change in marital status, natality, mortality, causes of death, internal and international migrations as well as the dynamics of data classified according to administrative divisions on the one hand, and towns and villages on the other."

4052 Algeria. Service de la Statistique Générale.
La situation démographique et économique de l'Algérie en 1960 [The demographic and economic position of Algeria in 1960]. Bulletin de Statistique Générale, Numéro Supplémentaire, 1961. 32 pp.

Text and tables give provisional estimates, rural and urban populations, and population of chief cities from census of Sept. 15, 1960. Data also on migration of French Moslem workers between Algeria and Metropolitan France, 1954-1960, and on recent developments in the creation of new villages for the regrouped population.

4053 Carreira, António.
A população civilizada da Guiné Portuguesa em 1950 [The civilized population of Portuguese Guinea in 1950]. Boletim Cultural da Guiné Portuguesa (Bissau) 14(56):547-568. Oct. 1959.

Summary of data from the 1950 census on demographic and socio-economic characteristics. [A. A. 12(3)]

4054 Germany. Federal Republic. Statistisches Bundesamt.
Eheschliessungen, Geburten und Sterbefälle im Jahr 1960 [Marriages, births and deaths in 1960]. By H. van Randenborghe. Wirtschaft und Statistik (Wiesbaden) 13(4): 226-228 and 200*. April 1961.

4055 Lorimer, Frank.
Demographic information on tropical Africa. Boston, Boston University Press, 1961. ix, 207 pp.

A critical survey of available source materials and the organization of data collection by region, in continental Africa south and east of the Sahara, excluding the Union of South Africa. Data concern primarily information published before January 1960.

4056 Olbrechts, Raymond.
Aspects récents du mouvement de la population en Belgique [Recent aspects of population change in Belgium]. Revue de l'Institut de Sociologie (Brussels), No. 2, 1960. Pp. 239-255.

Study of natality rates since 1939 in relation to annual changes in average number of children per marriage, and net reproduction rates. [P.R.T. 16(1)]

4057 Roof, Michael K.
Soviet population trends. Survey, No. 37, July-Sept. 1961. Pp. 34-42.

Discussion of published results of the 1959 census, in comparison with previous data, with special reference to demographic and socio-economic characteristics.

4058 Saunders, J. V. D.
The people of Ecuador: a demographic analysis. Latin American Monographs, 14. Gainesville, University of Florida Press, 1961. 61 pp.°

4059 Ungern-Sternberg, Roderich.
Zur demographischen Lage in der Welt, mit besondere Berücksichtigung Japans, Schwedens, und Italiens [On the demographic situation in the world with special reference to Japan, Sweden, and Italy]. Jahrbücher für Nationalökonomie und Statistik (Munich and Stuttgart) 173(1):50-65. April 1961.

4060 U. S. Bureau of the Census.
The size, composition, and growth of the population of Mainland China. By John S. Aird. International Population Statistics Reports, Series P-90, No. 15. Washington, U. S. Government Printing Office, 1961. VI, 100 pp., processed.
Analysis of the census results of 1953-1954 and of the extension of the system of population registers. Adjusted estimates of age and sex structure and rate of growth of the population and projection to 1958. Bibliography of sources.

4061 Universidad Nacional Autónoma de México.
Censo experimental de Ixtapaluca, estado de México [Pilot census of Ixtapaluca, Mexico State]. Ciencias Políticas y Sociales (Mexico, D.F.), Oct.-Dec. 1959. Pp. 585-604.°

4062 Vergottini, Mario de.
Movimento naturale e sociale della popolazione in funzione del volume demografico dei comuni [Changes in demographic and social characteristics of the population in relation to the population size of the communes]. Statistica (Bologna) 21(1):53-61. Jan.-March 1961.

4063 White, Marvin L.
South Dakota population in 1960. University of South Dakota, Business Research Bureau, Bulletin 69. Vermillion, [1961]. 27 pp.
Summary and tables of statistics on population change by county and economic region, 1950-1960; past trends, 1900-1960; and distribution by size of place 1960.

4064 Child, John, and Co.
A study of the economic potential of the Hawaiian Islands. Parts I, II & IV.... Prepared for the State Planning Office, State of Hawaii. Honolulu, Oct. 1960. xx, 234 pp., processed.
Parts: The environment and resources of Hawaii (demographic factors; social structure; wealth; income); Structure and growth potential of Hawaii's economy; Hawaii's future - growth projections and future needs (employment and population). See also Title 4112, this issue.

[See also Titles 4038, 4039, 4233, 4245, 4306, 4310, 4355, 4445, 4519, 4521]

Surveys Containing Demographic Material

4065 Irving, James.
Macleantown: a study of a small South African community. Rhodes University, Institute of Social and Economic Research, Occasional Papers, 4. Grahamstown, 1959. 288 pp., processed.
Chapters include: The demography of the village; Social patterns in the village - the family. Total population, 107 persons.

4066 Kirkwood, Kenneth, Editor.
African Affairs, No. 1. St. Antony's Papers, No. 10. London, Chatto and Windus, 1961. 164 pp.
Partial contents:
Hellmann, Ellen. The application of the concept of separate development to urban areas in the Union.
Holdsworth, M. African studies in the U.S.S.R.
Shaul, J. R. H. African sample surveys in the Federation of Rhodesia and Nyasaland.

4067 Miner, Horace, Editor.
Social science in action in sub-Saharan Africa. [A group of 12 articles]. Human Organization 19(3):97-167. Fall 1960.
Partial contents:
Hance, William A. The economic location and functions of tropical African cities. Pp. 135-136.
Gulliver, Philip H. Incentives in labor migration. Pp. 159-163.

4068 Pan American Union. Union Panamericana. Departamento de Estadística; [and] Instituto Interamericano de Estadística.
América en cifras 1960 [América in figures 1960]. In 8 parts. Washington, [1961]. Processed. [The "underlying objective is to furnish the users of statistics, data that will permit them to appraise the social and economic changes that take place over the course of time throughout the Hemisphere." Publisher's announcement.]
1. Estadísticas demográficas [Population statistics]. vii, 37 pp.
2. Estadísticas económicas: producciones agropecuaria, extractiva, vegetal y

pesquera [Economic statistics: production of agriculture and grazing, mining, forestry and fishing]. ix, 33 pp.

3. Estadísticas económicas: producción industrial [Economic statistics: industrial production]. ix, 50 pp.

4. Estadísticas económicas: transportes, comunicaciones y comercio [Economic statistics: transportation, communication and trade]. ix, 33 pp.

5. Estadísticas económicas: balanza de pagos, ingreso nacional, moneda y finanzas públicas [Economic statistics: balance of payments, national income, money and public finance]. ix, 40 pp.

6. Estadísticas económicas: precios, salarios y consumo [Economic statistics: prices, wages and consumption]. ix, 34 pp.

7. Estadísticas sociales y del trabajo [Social and labor statistics]. x, 61 pp.

8. Estadísticas culturales [Cultural statistics]. x, 42 pp.

4069 Vysušilová, Dagmar.
Životní podmínky sklářských dělníků v severních Čechách (2. část) [Living conditions of glassworkers in Northern Bohemia (Part 2)]. Demografie (Prague) 3(2):127-138. 1961. Russian and English summaries.

For citation of Part 1, see 27: Title 3086.

C. SPATIAL DISTRIBUTION

General Spatial Distribution

4070 Angenot, L. H. J.
Het westen des lands [The western part of the country]. De Economist (Haarlem) 107 (9):577-612. Sept. 1959.

Outline of concentration patterns and planning problems in the Randstad Holland area of the Netherlands. Critique of the conclusions presented by the Planning Commission in 1957 and 1958.

4071 France. Institut National de la Statistique et des Etudes Economiques.
Nouvelle délimitation des agglomérations urbaines utilisées par l'I.N.S.E.E. [New delimitation of urban agglomerates used by the I.N.S.E.E.]. Etudes Statistiques: Supplément Trimestriel du Bulletin Mensuel de Statistique 12(1):3-35. Jan.-March 1961.

Study directed by Paul Le Fillatre. Text discusses definitions and method of delimiting urban agglomerations; method for determining multi-communal urban agglomerations; special problems and solutions; principal results. Basic tables.

4072 Fuguitt, Glenn V.
Rural and urban population change in Wisconsin 1950-1960. Population Series, Wisconsin's Population, No. 2. Madison, March 1961. 84 pp.

"... population distribution by place of residence is considered in Part I. Changes in population for incorporated places and rural and urban population segments are taken up in Part II."

4073 Gregor, Jan.
Vliv nové územní organizace na počet obyvatel měst v ČSSR [Influence of the new territorial organization on the population size of cities in Czechoslovakia]. Demografie (Prague) 3(1):83-85. 1961.

Presents data on estimated size and distribution of urban population in relation to total population by definitions in force before and after July 1, 1960.

4074 Holm, Edwin E.
Virginia grows metropolitan. Virginia Economic Review 14:1-8. Jan. 1961.

"1961 census." [P.A.I.S. 47(38)]

4075 Horvath, T.
[On the situation of counties and towns: territory, population, population movement.] Megyei es Varosi Statisztikai Ertesito (Budapest) 11(2):72-91. Feb. 1961. In Hungarian.°

4076 Italy. Servizio Informazioni.
Distribuzione regionale e provinciale della popolazione Italiana: andamento del fenomeno dal 1901 al 1960 [Regional and provincial distribution of the Italian population: growth from 1901 to 1960]. Documenti di Vita Italiana 11(110):8723-8727. Jan. 1961.

4077 Nellner, Werner.
Zur Frage der statistischen Bestandsaufnahme für kleinere Verwaltungsbezirke. Die Entwicklung der Kreismappen [On the question of statistical inventory for small administrative districts. The development of the Kreismappe]. Raumforschung und Raumordnung (Bad Godesberg) 19(1):1-6. 1961.

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4078 New Hampshire. State Planning and Development Commission.

Population and area of cities, towns, and counties in New Hampshire, 1960. Report prepared as a part of the Economic Growth Survey. By Paul Hendrick and Jono B. Pollard. Concord, 1961. 12 pp., processed.

Comparison of 1950 and 1960 census results.

4079 Petty, Julian J.

South Carolina population redistribution. University of South Carolina Business and Economic Review 7(8):1-4. May 1961.

Summary and cartograms of percent change by county, 1950-1960, white and nonwhite, compared with change, 1920-1960. Comments on migration data.

4080 Staszewski, J.

[Distribution of the world population on the basis of density; a preliminary communication.] Przeglad Geograficzny (Warsaw) 32(3):335-342. 1960. In Polish with English, French, and Russian summaries.

4081 Tagliacarne, Guglielmo.

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Report on statistical tabulation of commercial centers and their trading areas and purchasing power, for all Italy, by the Unione Italiana delle Camere di Commercio Industria e Agricoltura.

[See also Titles 4001, 4015, 4036, 4063, 4084, 4091, 4094, 4105, 4209, 4213, 4220, 4243, 4282, 4284, 4285, 4296, 4297, 4310, 4317, 4389, 4413, 4416, 4426, 4436, 4474, 4486, 4489, 4521]

Urban Patterns

4082 Achterstraat, J.

De steden in Australië, II [The cities of Australia, II]. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 52(4):94-106. April 1961.

Descriptive notes on each of ten leading cities. For citation of Part I, see 26: Title 4103.

4083 Borges, T. P. Accioly.

Censo demográfico de Brasilia, a nova capital do Brasil [Population census of Brasilia, the new capital of Brazil]. Boletim do Centro Latino-Americano de Pesquisas en Ciências Sociais (Rio de Janeiro), May 1960. Pp. 30-37.

Density and distribution. Tables. [B.A.D. 16(1)]

4084 Bunle, M. H.

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Staten Island communities. Population characteristics and neighborhood social resources. New York, May 1960. li, 119 pp., processed.

"... this report ... completes the publication of the series of studies of neighborhoods within each of the five boroughs." For previous citations see 26: Title 4109.

4086 Echeverria, E.

How much land do Indian cities need? Urban and Rural Planning Thought (New Delhi) 1(4):253-262. Oct. 1958.

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4088 Manshard, Walther.

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4090 Rome. Ufficio de Statistiche e Censimento.

Roma: popolazione e territorio dal 1860 al 1960—con la distribuzione territoriale dei risultati dei censimenti [Rome: population and area from 1860 to 1960—with the territorial distribution of the census results]. Rome, 1960. viii, 432 pp.

Study directed by Mario Figà-Talamanca, in which statistical data and notes are assembled to provide an outline of the demographic and territorial development of Rome over the century.

4091 Svetlitchni, B.

L'urbanisme soviétique à l'étape actuelle [The present stage of Soviet urbanism]. Etudes Economiques (Mons), No. 130, 1961. Pp. 75-88. Translated from Russian text in Voprosy Ekonomiki (Moscow), No. 7, 1960.

Outline of goals for urban planning and construction in the Seven-Year Plan (1960-1967).

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4093 Zimmer, Basil G., and Hawley, Amos H.

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Report on an interview survey of a random sample of 670 household heads in the Flint, Michigan, Metropolitan Area on motives for moving from the central city to the suburbs and on the degree of success in obtaining the desired improvements in space and privacy.

[See also Titles 4003, 4014, 4015, 4030, 4038, 4047, 4067, 4070-4075, 4078, 4100, 4105, 4117, 4275, 4276, 4362, 4379, 4416, 4464, 4471, 4477, 4488, 4508, 4521, 4528, 4529]

Rural Patterns

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Rural population of Bihar. Geographical Review 51(2):253-276. April 1961.

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4095 Akkan, Hamed.

La sédentarisation des tribus en Syrie [The sedentarization of the tribes in Syria]. L'Agronomie Tropicale (Paris) 15(6):661-668. Nov.-Dec. 1960. English summary.

Description of the first results in the settlement process begun in 1950. [C.G.P. 24(5)]

4096 Ashkenazi, Touvia.

[Bedouin tribes of the Negev.] Mada [Science] (The Weizman Scientific Press) 5(4):17-29. Feb. 1961. In Hebrew.

4097 Barth, Fredrik.

Nomads of South Persia: the Basseri tribe of the Khamseh Confederacy. Oslo, Oslo University Press; New York, Humanities Press, 1961. 159 pp. Also published as Bulletin 8, Universitetets Etnografiske Museum, University of Oslo.

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[See also Titles 4072, 4240, 4241, 4297, 4415]

D. TRENDS IN POPULATION SIZE

Past Trends

4099 Austria. Statistisches Zentralamt.
Vorläufige Ergebnisse der Volkszählung 1961 [Preliminary results of the 1961 population census]. By H. Hofeneder. Extracted from: Statistisches Nachrichten, Vol. 16, No. 6, June 1961. 7 pp., processed.
Comparison of statistics on resident population 1951 and 1961 by laender and bezirke.

4100 France. Institut National de la Statistique et des Etudes Economiques.
Quelques données sur les recensements complémentaires, 1956-1960 [Data on the supplementary censuses, 1956-1960]. Etudes Statistiques: Supplément Trimestriel du Bulletin Mensuel de Statistique 12(1):37-49. Jan.-March 1961.
Study directed by Paul Le Fillatre. Exposition of methods of enumeration and selected data obtained in special censuses since 1956 in certain French communes of rapid growth.

4101 Goss, Bernard.
Southwestern population trends during the 1950's. Business Review, Federal Reserve Bank of Dallas 45:1-6. Nov. 1960.°

4102 Massachusetts. State Department of Commerce.
Population movements in Massachusetts, 1950-1960. Department of Commerce Publication 30. Boston, 1961. 10 pp., processed. °

4103 Mironenko, IU.
Population trends in the Kazakh S.S.R. as shown by the 1959 census. East Turkic Review (Munich), No. 4, Dec. 1960. Pp. 54-67.
Summary of census data on trends in numbers, ethnic structure, and urban-rural ratio, 1897-1959. [E.A. 8(23)]

4104 Norris, Clio C.
The population accordion. Georgia Business 20:1-9. Nov. 1960.
"Population movements in Georgia in relation to other parts of the U. S. and in relation to past censuses; 1960." [P.A.I.S. 47(30)]

4105 Oregon. State Census Board.
Population Bulletin, Release P-1-. Portland, Aug. 1960-. Processed.
P-1. Population growth - State of Oregon and incorporated places 1860-1960. Aug. 1960. 6 pp.
P-2. Population growth - Oregon cities, counties, and state economic areas: 1900-1960. Oct. 1960. 10 pp.
P-3. See 27: Title 3121.
P-4. Population distribution by age and sex, State of Oregon: 1950 and 1960. June 1961. 6 pp.

[See also Titles 4002, 4036, 4045, 4050, 4051, 4056, 4057, 4059, 4060, 4062-4064, 4072, 4075, 4076, 4078, 4079, 4084, 4087, 4090, 4107, 4108, 4209, 4214, 4244, 4246, 4252, 4261, 4276, 4284, 4299, 4310, 4317, 4380, 4463, 4488, 4519, 4521, 4524]

Estimates

4106 Dundon, Thomas C.
A method for estimating the population of Missouri counties. Business and Economic Review 2(1):10-15. Jan.-Feb. 1961.

4107 Germany. Federal Republic. Statistisches Bundesamt.
Alter und Familienstand der Bevölkerung Ende 1959 sowie Bevölkerungsstand und Bevölkerungsentwicklung im Jahr 1960 [Age and marital status of the population at the end of 1959 as well as the size of the population and population change in the year 1960]. By Karl Schwarz. Wirtschaft und Statistik 13(4):224-226 and 198*—200*. April 1961.

4108 Tomasson, Richard F.
Bias in estimates of the U. S. nonwhite population as indicated by trends in death rates. Journal of the American Statistical Association 56(293):44-51. March 1961.
Outline and evaluation of evidence and hypotheses concerning statistics of the years 1925-1957, based on an analysis of quinquennial patterns in the annual rates by sex and color.

[See also Titles 4031-4033, 4035, 4036, 4038, 4045-4047, 4050, 4052, 4060, 4073, 4214, 4289, 4310, 4435, 4455, 4491]

Projections and Predictions

4109 American Statistician.
Projections of the number of households, for conterminous United States: July 1960 to 1970 (revised). American Statistician 15(3):27. June 1961.

A tabulation of unpublished Bureau of the Census data, using old household definition. Numbers in thousands, excluding Alaska and Hawaii.

4110 Great Britain. Ministry of Pensions and National Insurance.
National Insurance Acts, 1946-59. Report by the Government Actuary on the Second Quinquennial Review (H.C. 220, 1959-60). London, H. M. Stationery Office, 1960. ii, 53 pp.

"The demographer will be interested in the bases of the Government Actuary's estimates, particularly a new forecast of the future population of Great Britain to the year 1998, subdivided by marital status. The estimates are on similar lines to those included in the first quinquennial review and assume a continuation of the trends observed in recent years." [J.R.S.S., Ser. A. 124(1)]

4111 Hall, A. R., and Hill, M. R.
Housing demand in Australia, 1959-1974. Economic Record (Melbourne) 36(76):550-567. 1960.

"The increase in demand for occupied dwellings must be seen then as being dependent, in the main, on changes in the size, age-distribution and conjugal status of the population and on changes in the desired occupancy ratios of the populations of different conjugal status. We therefore have to estimate: (a) the size and age-distribution of the male and female population (say 15 years of age and over) in 1964, 1969 and 1974; (b) the likely conjugal status of our estimated population; and (c) the proportion of persons of each conjugal status likely to be maintaining a separate household at each date. In making these estimates it is advisable to distinguish between the two main sources of population growth, i.e. natural increase and net immigration. Separate estimates have thus been made for each of these components."

4112 Hawaii. State Planning Office.
The general plan of the State of Hawaii. Hawaii's next twenty years, 1960-1980. Honolulu, Jan. 1961. 115 pp. and folding map.

Section on population sketches migration history and presents two alternative projections, based on assumptions of normal growth and of state-accelerated development. See also Title 4064, this issue.

4113 Holzer, Jerzy.
Nowa wersja prognozy rozwoju liczby ludności Polski [New version of the projection of population growth of Poland]. Wiadomości Statystyczne (Warsaw) 6(1):1-5. 1961.

4114 International Labour Office.
Projections of population and labour force. International Labour Review (Geneva) 83(4):378-399. April 1961.

"After a short discussion of the methods used for population and labour force projections, an analysis is made of figures on world and regional trends up to 1975, as well as of the more detailed data available for six selected countries [Canada, Finland, France, German Federal Republic, New Zealand, and United States]. Tables of projections for these six countries and comments on the basic assumptions underlying the calculations are given in Appendix I. Finally Appendix II contains a selected reference list."

4115 Maclachlan, John M.
Population growth: 1930-1970. Pp. 12-20 in: Kilpatrick, Wylie, Editor. Higher education and Florida's future: Vol. II, Florida's economy - past trends and prospects for 1970. Gainesville, University of Florida Press, 1956. XII, 180 pp.

Presentation of estimates for selected years, 1930-1970, of population by color, age and sex, place of residence (urban, rural nonfarm, rural-farm), economic and metropolitan areas. Comparison of projections with those of U. S. Bureau of the Census.

4116 Kucera, Milan.
Projekce obyvatelstva CSSR do roku 1980 [Projection of the population of Czechoslovakia to 1980]. Demografie (Prague) 3(1):85-88. 1961.

Summary notes and tables of alternative projections of population for the whole country, the Czech lands, Slovakia, and the krays.

4117 Portland (Oregon). Metropolitan Planning Commission.
Population prospects: projections of the metropolitan population to 1975 with age-group and geographic distributions. Portland, 1960. 96 pp. and 2 folding maps.°

4118 Singapore. Department of Statistics.
Population projections of Singapore. Cmd. 16 of 1961. Singapore, April 28, 1961. 19 pp.

Presentation of tables summarizing "the estimated population of Singapore as projected for the period 1962 to 1982 at five yearly intervals. Separate calculations were made for the principal races, Malaysians, Chinese, and Indians and Pakistanis according to sex and age (in specific age groups). The estimates for total races were rated up from the combined figures of these three principal races."

4119 U. S. Bureau of Employment Security.
Sources of data for manpower projections. Employment Security Research Methods Handbook Series, R-199. Washington, March 1961. III, 80 pp.

Description of method of estimating population, labor force, employment status of the civilian labor force, wage and salary employment in non-agricultural industries, employment by occupation. Notes on sources of basic data. Appendix: Supplementary procedures for developing additional population and labor-force age detail for group 25-44 years of age.

4120 Yun, Kim, et al.
Illustrative projections of school populations in the Philippines, 1960-1980. Philippine Statistician (Manila) 9(4):133-158. Dec. 1960.

Estimates, on varying assumptions of fertility and mortality, of the numbers, by sex, aged 7-13 and estimates on similar assumptions of actual school-attending population.

[See also Titles 4005, 4009, 4011, 4019, 4060, 4064, 4094, 4269, 4310, 4326, 4328, 4334, 4354, 4357, 4370, 4426, 4463, 4464, 4491, 4521]

E. MORTALITY

General Mortality

4121 Balkany, L., and Karbuczky, I.
[Development of mortality in Budapest.] Megyei es Varosi Statisztikai Ertesito (Budapest) 10(8):341-352. Aug. 1960. In Hungarian. °

4122 Bastide, H.
[Human life and its limits in France.] Vie Médicale (Paris) 41:1375-1381 and 42:255-260. Dec. 1960 and Feb. 1961. In French. °

4123 Birûkova, R. N.
Vliûanie vazhneishikh prichin smerti na sredniûû prodolzhitel' nost' zhizni naseleniû [The influence of the most important causes of death on the average life expectation of the population]. Sovenskoe Zdravookhranenie (Moscow) 20(5):92-96. 1961.

4124 Blaha, Frantisek.
Prodlouzeni lidskeho veku [Prolongation of human life]. Prague, Orbis, 1960. 334 pp.°

4125 Breznic, D.
[Some characteristics of the mortality of the population of Yugoslavia based on the mortality tables.] Socijalna Politika (Belgrade) 10(12):39-53. Dec. 1960. In Serbo-Croatian. °

4126 Chasteland, J. C.
[Mortality in Western Europe since 1900.] Concours Médical (Paris) 83:1645-1652. March 18, 1961. In French. °

4127 Daw, R. H.
The comparison of male and female mortality rates. Journal of the Royal Statistical Society, Series A 124(1):20-35. Discussion, pp. 35-43. 1961.

"The difference between the ages at which male and female rates of mortality are equal (called the female advantage) is proposed as a measure of comparison of the mortality of the sexes. The female advantage is calculated for various periods of time in a number of different countries. The application of the female advantage method to cause of death figures is briefly considered. A study of the pattern of the female advantages for ages over 40 leads to an approximate empirical relationship between the ages at which the mortality rates for the sexes are equal."

4128 Enterline, Philip E.
Causes of death responsible for recent increases in sex mortality differentials in the United States. Milbank Memorial Fund Quarterly 39(2):312-328. April 1961.

"It is the purpose of this paper to present recent data on trends in sex mortality differentials in the United States; to identify

age groupings where the increases in sex mortality differentials have been greatest; and, in these age groupings, to determine which causes of death have been mainly responsible."

4129 Greppi, E.
Influence of exogenous and endogenous factors on longevity. Gerontologia Clinica (Basel) 3:5-14. 1961.°

4130 Metropolitan Life Insurance Company.
[Notes on mortality in the United States.] Statistical Bulletin, Vol. 42. 1961.
Fifty years of health progress. Jan. Pp. 1-7.
Morbidity and mortality from heart disease. Feb. Pp. 3-6.
Accidents - a major killer. Ibid. Pp. 6-9.
Types of fatal heart disease. March. Pp. 8-10.
The causes of premature death. May. Pp. 9-10.
Recent variations in pneumonia-influenza mortality. June. Pp. 3-6.
Longevity of industrial policyholders in 1960. Ibid. Pp. 6-8; 11.
Accident death rates decrease in most states. Ibid. Pp. 8-10.

4131 Pinskii, L. Kh.
[Analysis of mortality at the Second Hospital in Kishinev from 1954 to 1958.] Zdravookhranenie (Kishinev) 3(6):10-14. Nov.-Dec. 1960.°

[See also Titles 4013, 4020, 4033, 4051, 4054, 4059, 4142, 4147, 4152, 4169, 4242, 4289, 4310, 4441, 4463, 4516]

Prenatal and Perinatal Mortality

4132 Arbelo, A.
[Perinatal mortality in our demography.] Progresos de Pediatría y Puericultura (Madrid) 3:530-533. Dec. 1960. In Spanish.°

4133 Botella Llusia, J., et al.
[Causes of perinatal mortality.] Progresos de Pediatría y Puericultura (Madrid) 3:533-537. Dec. 1960. In Spanish.°

4134 Kovacs, F.
[Perinatal infant mortality during 1931-1958.] Nepegeszsegugy (Budapest) 41:316-328. Nov. 1960. In Hungarian.°

4135 Spielmann, W., and Hinterberger, K.
[Perinatal mortality in 12,000 births.] Geburtshilfe und Frauenheilkunde (Stuttgart) 20:1322-1330. Dec. 1960. In German.°

[See also Titles 4138, 4144, 4148, 4169, 4443]

Infant Mortality

4136 Griffiths, J.
The first year of life of the Johannesburg Bantu. South African Medical Journal (Johannesburg) 34:1011-1014. Nov. 26, 1960.°

4137 Krysztofowics, I.
[Evaluation of the result of infant mortality control in 1959.] Pediatria Polska (Warsaw) 35:1419-1439. Dec. 1960. In Polish.°

4138 Musil, Jiří, and Balík, Stanislav.
Územní rozložní kojenecké úmrtnosti ve vybraných městech českých krajů [Territorial location of infant mortality in towns selected in Czech regions]. Demografie (Prague) 3(2):115-126. 1961. Russian and English summaries.
"The territorial location of infant mortality, the number of still-births, and the percentage of illegitimate births was assessed in Prague, Brno, Plzeň, Olomouc, Písek and Tábor. In certain towns (Prague, Olomouc) the changes of infant mortality ecology were investigated during the course of several decades."

[See also Titles 4013, 4134, 4144, 4173]

Mortality at Other Ages

4139 Stahlie, T. D.
Child mortality in Thailand. Tropical and Geographical Medicine (Amsterdam) 12:327-338. Dec. 1960.°

[See also Titles 4127, 4130, 4146, 4197]

Life Tables

4140 Abdel-Aty, S. H.
Life-tables functions for Egypt based on model life-tables and quasi-stable population theory. Milbank Memorial Fund

Quarterly 39(2):350-377. April 1961.

"The purpose of this paper is to utilize the properties of the quasi-stable population to derive a life table and the related vital rates for Egypt, based on the reported age distribution of the last census and the rate of natural growth in the last intercensal period." Presentation and evaluation of the results.

4141 Chin Long Chiang.

A stochastic study of the life table and its application. III. The follow-up study with the consideration of competing risks. Biometrics 17(1):57-78. March 1961.

For citation of previous parts see 27: Titles 2177 and 2178.

4142 Davis, Leona L.

Life tables in the measurement of mortality and longevity. Public Health Reports 76(6):509-514. June 1961.

Explanation of terms and presentation of NOVS life-table values, by sex and color, for the United States, 1958, and examination of trends, 1900-1958.

4143 Germany. Federal Republic. Statistisches Bundesamt.

Sterbetafel 1958/59 nach Geschlecht und Todesursachen [Life table 1958-59 by sex and causes of death]. By Karl Schwarz. Wirtschaft und Statistik 13(3):164-166 and 134*-135*. March 1961.

[See also Titles 4125, 4521]

Mortality by Social and Economic Groups

4144 Henripin, Jacques.

L'inégalité sociale devant la mort: la mortinatalité et la mortalité infantile à Montréal [Social inequality in relation to death: stillbirths and infant mortality in Montreal]. Recherches Sociographiques (Quebec) 2(1):3-34. Jan.-Mar. 1961.

Examination of rates, 1926-1958, and of differentials by ethnic origin and occupation of the father. Consideration of the role of various social factors. Graphics.

4145 McLaughlin, A. I., and Harding, H. E.

The causes of death in iron and steel workers (non-foundry). British Journal of Industrial Medicine 18:33-40. Jan. 1961.°

4146 Myers, Robert J.

Mortality of workers insured under OASDI, 1955. Social Security Bulletin 24(7):11-17. July 1961.

Report of a preliminary investigation of a study of the mortality of insured workers in relation to the mortality of the total U. S. population. Data concern deaths by age, sex, occupation, and earnings.

4147 Sheps, Mindel C.

Marriage and mortality. American Journal of Public Health 51(4):547-555. April 1961.

Report on an analysis of 1950 U. S. census data and 1949-1951 mortality data by marital status, age, and sex. Discussion of possible factors causing the differentials observed. Appendix: Effect of classification errors on mortality ratios.

4148 Sopena Ibanez, A.

[Influence of social factors on perinatal mortality.] Medicina (Madrid) 28:239-246. May-June 1960. In Spanish.°

4149 Uttley, K. H.

Smallpox mortality in the Negro population of Antigua, West Indies; a historical note. West Indian Medical Journal (Kingston, Jamaica) 9(3):169-171. Sept. 1960. Spanish summary.

Report on data obtained in a perusal of all births and deaths recorded in Antigua since the introduction of compulsory registration in 1856. Summary of mortality data, 1856-1865 (last recorded death due to smallpox) by month, age, sex, climatological conditions.

4150 Uttley, K. H.

The mortality and epidemiology of diphtheria since 1857 in the Negro population of Antigua, British West Indies. West Indian Medical Journal (Kingston, Jamaica) 9(3): 156-163. Sept. 1960.

Report of data on age, sex, date and locality of deaths, obtained by inspection of death registers, 1857-1956. Comparison of rates with England and Wales.

[See also Titles 4108, 4128, 4130, 4136, 4169, 4196, 4197]

Mortality by Cause

4151 Finland. Tilastollinen Paatoimisto.

Väestötilastoa kuolemansyyt tauluja [Causes of death in Finland. Tables 1956-1957]. Suomen Virallinen Tilasto VI B:114. Helsinki, 1960. 142 pp. Duplicate text in Swedish and English.

4152 Marton, Zoltán.
A halálokok szerkezeti összetétele, a vezetö halálokok [Structure composition of causes of death. Trend of leading causes of death]. Demográfia (Budapest) 4(2):171-210. 1961. Russian and English summaries.

Analysis of changes 1900-1958 in age-specific death rates and of leading causes of death by age and sex in 1958, with international comparisons.

4153 Okasaki, Ayanori.
The suicidal tendency in Japan. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):557-561. 1961. French summary.

Survey of data 1939-1955.

4154 Péquignot, H., and Bertin, M.
Données numériques sur les suicides et tentatives de suicide en France [Numerical data on suicides and attempted suicides in France]. La Semaine Médicale, Professionnelle et Médico-sociale: Supplément à la Semaine des Hôpitaux (Paris) 37(20):167-172. March 8, 1961.

Survey of data 1950-1957 by age and sex.

4155 Szemeti, J.
[Tumor cases and deaths in Komarom County from 1950 to 1957.] Megyei es Varosi Statisztikai Ertesito (Budapest) 10(8):361-368. Aug. 1960. In Hungarian.°

4156 Uttley, K. H.
Epidemiology and mortality of malaria in Antigua, BWI, 1857-1956. American Journal of Public Health 51(4):577-585. April 1961.

Report on data on "persons of African descent" by examination of death registers. Tabulates annual death rates in comparison with annual rainfall. Notes on vectors. Comparisons with other parts of West Indies and Guiana. Bibliography.

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[See also Titles 4013, 4051, 4123, 4127, 4128, 4130, 4133, 4143, 4149, 4150, 4173, 4191, 4247, 4392, 4394, 4396-4399, 4443, 4496]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4157 Biraben, Jean-Noël.
Evolution récente de la fécondité des mariages dans les pays occidentaux [Recent change in marital fertility in Western countries]. Population (Paris) 16(1):49-70. Jan.-March 1961.

Examination of trends, 1937-1958, in nine West European countries. Application of Henry's formula for the probability of increasing family size to data for Italy and the United States. Comparisons with French experience.

4158 Henry, Louis.
Fécondité et famille: modèles mathématiques (II) [Fertility and family: mathematical models (II)]. Population (Paris) 16(1):27-48. Jan.-March 1961.

The second of three articles (see 24: Title 2224 for citation of the first) presenting models that describe relations that exist between fertility rates and fundamental functions (length of infertile periods, the probability of conception during fertile periods, and the proportion of conceptions terminating in live births). The present paper elaborates the models to take account of other functions (number of children, duration of marriage at birth of children of each birth order, and intervals between births) in homogeneous groups not practicing contraception.

4159 Oettlé, A. G., and Higginson, J.
The age at menarche in South African Bantu (Negro) girls: with a comment on methods of determining mean age at menarche. Human Biology 33(2):181-190. May 1961.

Report of data obtained from 1002 school girls October 1955-April 1956, in township near Johannesburg. Comparison with data on other populations.

4160 Pressat, Roland
Fertilité et fécondité humaines. Données biométriques récentes [Human fecundity and fertility. Recent biometric data]. Concours Médical (Paris) 83(6):841-847. Feb. 11, 1961.

4161 Schaarschmidt, W.
[On the changes in the birth rate in the German Democratic Republic.] Deutsche Gesundheitswesen (Berlin) 15:2266-2269. Nov. 17, 1960. In German. °

4162 Somogyi, Stefano.
La prolificità delle donne decedute coniugate e vedove nelle regioni d'Italia, 1954-57 [The prolificacy of deceased married women and widows in the Italian regions, 1954-57]. Statistica (Bologna) 21(1):145-190. Jan.-March 1961.

Analysis of data by region on children ever born and surviving children for the two groups in comparison with data of 1931.

4163 Vincent, Paul.
Recherches sur la fécondité biologique. Etude d'un groupe de familles nombreuses. [Research on biological fertility. Study of a group of large families]. Institut National d'Etudes Démographiques, Cahiers de Travaux et Documents, 37. Paris, Presses Universitaires de France, 1961. No. pp. not stated.

For a presentation and summary of this analysis of data on families with at least nine children, considered for prizes by the Cognacq-Jay Foundation, see Population (Paris) 16(1):105-112. Jan.-March 1961.

4164 Wandrey, H.
Ursache und Bedeutung der verspäteten Geburt des ersten und zweiten Kindes [Cause and significance of the delayed birth interval between first and second children]. Hamburg, Deutsche Akademie für Bevölkerungswissenschaft, 1958. 63 pp. °

[See also Titles 4020, 4029, 4042, 4051, 4054, 4059, 4097, 4166, 4169, 4289, 4310, 4376, 4444, 4463, 4490, 4516, 4521]

Differential Fertility

4165 Datta, Subodh.
Differential fertility in West Bengal in 1956. Artha Vijñāna (Poona) 3(1):67-83. March 1961.

Further analysis of data obtained in the Indian Statistical Institute's sample survey in 1956 covering rural tracts in eight districts of West Bengal and urban samples from Calcutta [see 27: Title 1393]. This paper considers fertility differentials in relation to degree of urbanization, income, education, and family type.

4166 Krokfors, Erik.
Synnyttäneisyysjakautuman vaihteluista eri puolilla maatamme v. 1955 [Regional variations in parity rate in 1955]. Duodecim (Helsinki) 77:66-70. 1961. English summary.

Report on a study of frequency distributions of birth data by parity from parish registers in four communes. Regional contrasts in livelihood patterns are also noted.

4167 Roberts, G. W., and Braithwaite, Lloyd.
Fertility differentials by family type in Trinidad. Annals of the New York Academy of Sciences 84(17):963-980. Dec. 8, 1960.°

4168 Rosenthal, Erich.
Jewish fertility in the United States. Pp. 3-27 in: American Jewish Committee. American Jewish yearbook 1961. Vol. 62. New York and Philadelphia, 1961. x, 514 pp.

A summary and analysis of recent data on fertility by religious groups, in relation to demographic and socio-economic characteristics, in the United States. International comparisons. Review of current Jewish attitudes toward family planning and of prospective trends.

4169 Uttley, K. H.
The birth, still-birth, death and fertility rates in the coloured population of Antigua, West Indies, from 1857 to 1956. Transactions of the Royal Society of Tropical Medicine and Hygiene 55(1):69-78. Jan. 1961.

"I have personally examined all the parish registers from 1856 onwards and extracted all the relevant data about births, still-births and deaths that have occurred among persons of African descent, excluding similar material about white or other races." Presentation and comment on rates by decades for natality (live births, total births, sex ratio), fertility, still-births, illegitimacy, total deaths, deaths by age and sex. Comparisons with England and Wales.

4170 Vávra, Zdeněk.
K otázce diferenční plodnosti v českých zemích a na Slovensku [Differential fertility in the Czech region and in Slovakia]. Demografie (Prague) 3(2):103-114. 1961. Russian and English summaries.

A study of differences by region, economic activity of wife, and occupations of

husband and wife, based on 1930 census data and statistics of live births, 1928-1933.

4171 Witthauer, Kurt.
Versuch einer Korrelation zwischen den Anteilen städtischer Bevölkerung und den Geburtenraten [Test of correlation between the proportion of the urban population and the birth rate]. Petermanns Geographische Mitteilungen (Gotha) 104(4): 305-310. 1960. °

4172 Zerbin-Ruedin, E.
[Fertility and progeny in consanguinous and non-consanguinous marital probands.] Acta Genetica et Statistica Medica (Basel) 11:17-28. 1961. In German. °

[See also Titles 4028, 4029, 4173, 4193, 4196, 4378, 4490]

Sterility and Other Pathology

4173 Pakter, Jean, et al.
Out-of-wedlock births in New York City. I. Sociologic aspects. American Journal of Public Health and the Nation's Health 51(5):683-696. May 1961. [Report on an analysis of "all the available data of the New York City Departments of Health, Welfare, and Education" for the years 1955-1959. Notes on ethnic, geographic, and age patterns, and impact on social services.]

Out-of-wedlock births in New York City. II. Medical aspects. Ibid. 51(6):846-865. June 1961. [Sections deal with complications of pregnancy; maternal mortality; reported malformations or birth injuries of infants; premature births; infant mortality and causes of death. Comparison of data by ethnic group for in-wedlock and out-of-wedlock births, 1955-1959.]

4174 Roth, Gérard.
Etude de la fertilité de 300 mères de schizophrènes [Study of the fecundity of 300 mothers of schizophrenics]. Acta Genetica et Statistica Medica (Basel) 9(4): 284-305. 1959.

Report of a study of 300 hospital patients of both sexes at a psychiatric clinic at Geneva, 1940-1950. Data on average age of incidence of mental disease, completed fertility of their mothers, incidence of mental disease in siblings, and fertility of female patients. [P.R.T. 16(1)]

4175 Vaishwanar, P. S., and Deshpande, J. N.
The male factor in fertility and infertility. Indian Journal of Physiology and Pharmacology (Lucknow) 3:211-216. Oct. 1959.

"The present investigation therefore has been carried out to evaluate the male factor in fertility and infertility where a study of the quality of semen has been undertaken in 500 consecutive unselected men whose wives complained of at least one year's infertility."

[See also Titles 4164, 4196, 4249, 4400]

Fertility Controls

4176 Behrman, Samuel J.
Artificial insemination. International Journal of Fertility 6(3):291-298. July-Sept. 1961.

A report on 101 cases of donor insemination compared with a previous series of 168 cases as to results, with notes on a technique for evaluation of the psyche, the need for an accurate method of detecting ovulation and for a change in the definition of infertility.

4177 Buxton, C. L., and Herrmann, W.
Induction of ovulation in the human with human gonadotrophs. Preliminary report. American Journal of Obstetrics and Gynecology 81:584-590. March 1961. °

4178 Czechoslovakia. Státní Zdravotnické Nakladatelstvi.
Anticoncepce [Contraception]. [A group of 16 articles.] Ceskoslovenská Gynekologie 25/39(10):725-775. Dec. 1960. In Czech.

Partial contents:

Hnatek, L. [Current status of contraception in Czechoslovakia.] Pp. 725-728.

Nedoma, K. [The desire for parenthood and contraception early in marriage.] Pp. 729-732.

Volcko, J. [Contraception among rural women.] Pp. 737-738.

Hanak, O. [Contraceptive practice.] Pp. 747-748.

Trca, S. [Subjective and objective indications for the artificial interruption of pregnancy.] Pp. 754-756.

Nevrla, F. [Objective and subjective indications for the artificial interruption of pregnancy.] Pp. 757-758.

Rezacova, Z., and Kohoutek, M. [The

fate of pregnant women who were refused the artificial interruption of pregnancy.] Pp. 759-761.

Jurcikova, V. [Educational aspects of the Law No. 68/1957 Coll.] Pp. 762-763.

4179 Dandekar, Kumudini.
Promotion of family planning in rural areas: a field experiment. Artha Vijñāna (Poona) 3(1):24-37. March 1961.

Report on results obtained in the district of South Satara, Maharashtra State, India, in a government-sponsored campaign inaugurated November 1960 to popularize vasectomy as a method of family limitation.

4180 Kotz, Herbert L., and Herrmann, Walter.
A review of the endocrine induction of human ovulation. V. Cortisone. Fertility and Sterility 12(3):299-308. May-June 1961.

VI. Gonadotropins. Ibid. 12(4):375-394. July-Aug. 1961.

For citation of previous parts of this series of review articles see 27: Title 3207.

4181 LeMoal, P.
Contenence conjugale et morale sexuelle [Marital continence and sexual ethics]. La Vie Spirituelle (Paris), Supplément 44, 1958. Pp. 43-69.

Statistical study of the sexual behavior of 292 Catholic couples in relation to their attitude toward the problem of birth limitation.

4182 Lestapis, S. de, S. J.
Contraception et avortement à l'étranger [Contraception and abortion abroad]. Revue de l'Action Populaire (Paris), Jan. 1961. Pp. 97-107.

Survey of Japanese experience since the 1948 law and of Swedish experience since the 1938 law.

4183 Mojic, Angelina.
Pobacaj i regulisanje zaceca [Miscarriage and the regulation of conception]. Medicina za Svakog, Vol. 9. 2nd ed. Belgrade, Medicinska Kniga, 1957. vii, 112 pp.°

4184 Peeters, F., et al.
[Suppression of ovulation by progestagens.] Geburtshilfe und Frauenheilkunde (Stuttgart) 20:1306-1314. Dec. 1960. In German.°

4185 Pierce, Rachel M.
The extent of family planning in Britain. Family Planning 10(1):3-5. April 1961.

Report on methods and preliminary findings of the questionnaire study of marriage habits in Britain conducted in the winter of 1959-60 by the Population Investigation Committee in collaboration with Social Surveys (Gallup Poll) Ltd., covering a national sample of 2,496 married people.

4186 Ranadive, K. T., et al.
A socio-economic survey of a population-group in relation to family planning. Population Review (Madras) 5(1):27-38. Jan. 1961.

Report on an interview and questionnaire survey of 1000 working-class and lower middle-class families in Bombay Development Department and neighboring districts, October 1956-March 1960. Summary of data on socio-economic characteristics, frequency distribution of women by age and weight, age at menarche, coital frequency, attitudes toward family planning, and contraceptive practice.

4187 Routledge, J. H., et al.
The present status of therapeutic abortion. Obstetrics and Gynecology 17:168-174. Feb. 1961.°

4188 Service de Recherches Médico-Sociales de la Conférence Laënnec.
Fecondité et régulation des naissances, présenté par le.... [Fertility and birth control, presented by the ...]. [A group of articles.] Montréal Médical 12(7):3-97. Dec. 15, 1960.

Partial contents:

Gélinas, Jean-Paul. Réflexions d'un médecin sur le problème de la fécondité en notre milieu. Pp. 9-18.

Maheu, Pierre, and Martin, Jules. Méthodes de détermination des périodes fertiles et steriles. Pp. 53-77.

Lestapis, S. de, S. J. L'union maîtrisée non inseminatrice. Pp. 78-79.

Pelletier-Baillargeon, Hélène, and Baillergeon, Jacques. Témoinage sur l'application et la diffusion de la méthode sympto-thermique. Pp. 80-82.

4189 Srb, Vladimir, et al.
Průzkum manželství, antikoncepce a potratů (1959). II. Manželství a plánování rodiny [Investigation concerning marriage, birth prevention and abortion. II. Marriage and family planning]. Demografie (Prague) 3(2):139-156. 1961.

For citation of Part I, see 27: Title 3213.

The Russian and English summaries will be published with the last instalment.

4190 Swyer, G. I.
Results of artificial insemination (husband). Journal of Reproduction and Fertility 2:11-16. Feb. 1961. °

4191 Tietze, Christopher, and Lehfeldt, Hans.
Legal abortion in Eastern Europe. JAMA 175:1149-1154. April 1, 1961.
Report based primarily on materials presented at an International Conference on Abortion Problems and Abortion Control, Rostock-Warnemünde, May 5-7, 1960, and on personal communication by participants. Aspects considered: new legislation; numbers of legal abortions; criminal abortions and total pregnancies; choice and technique of operation; mortality; complications and sequelae; contraception.

4192 Vasil'eva, E. T.
[Ovulation time and birth control.] Voprosy Okhrany Materinstva i Detstva (Moscow) 5:51-54. Nov.-Dec. 1960. In Russian. °

[See also Titles 4012, 4022, 4029, 4168, 4310, 4360, 4409, 4463, 4468-4470, 4473]

Natural Increase

See Titles 4034, 4111, 4140, 4214, 4503.

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

4193 Berghe, Pierre L. van den.
Miscegenation in South Africa. Cahiers d'Etudes Africaines (Paris), No. 4, 1960. Pp. 68-84.
Comparison of actual with expected rates of intermarriage for four main ethnic groups by age and sex, based on census and vital statistics data, 1925-1946, the latest available before the Prohibition of Mixed Marriages Act of 1949. Notes also on practice in the nineteenth century.

4194 Freire-Maia, N., and Freire-Maia, A.
The structure of consanguineous marriages and its genetic implications. Annals of Human Genetics 25(1):29-39. May 1961.
Report on analysis of data from ecclesiastical files on marriages in ten dioceses of eastern Brazil. Discussion of terminology, presentation of coefficients of inbreeding for sex-linked genes for four subtypes of first-cousin once removed and second cousin marriages, and discussion of the mating system.

4195 Marsh, Robert M., and O'Hara, Albert R.
Attitudes toward marriage and the family in Taiwan. American Journal of Sociology 67(1):1-8. July 1961.
Report on results of a questionnaire administered to 651 undergraduates in two Taipei universities.

4196 Reis, Raymond H., and Hoene, Robert.
A study of Catholic consanguineous marriages. American Ecclesiastical Review 142:145-163. 1960.
Report on a study of 109 first-cousin marriages. Findings concern stability of marriage, family size, abnormalities, mortality rates of offspring. [S.A. 9(1)]

4197 New Zealand. Department of Statistics.
Remarriage and length of widowhood of New Zealand widows, 1955-57. Special Supplement to May 1961 Monthly Abstract of Statistics. Wellington, 1961. 16 pp., processed.
Presentation, with general and technical notes, of tables giving: Expectation of length of widowhood of New Zealand widows by exact age at time of becoming a widow; Total probabilities of New Zealand widows remarrying and not remarrying by age at time of becoming a widow; Remarriage and mortality of New Zealand widows by age at time of becoming a widow and duration of widowhood.

4198 Population Reference Bureau.
Spotlight on marriage. Population Bulletin 17(4):61-79. June 1961.
Based on a research report by Sarah Lewit. Text written by Annabelle Desmond. An international survey of recent trends in age at marriage in Western countries and concomitant changes in birth rates. Notes on differentials by residence, education, and economic level, and on types of martial unions and family units.

[See also Titles 4054, 4185, 4189, 4282, 4288, 4289, 4372, 4490, 4494]

The Family

4199 Edwards, A. W.
On the size of families containing twins. Annals of Human Genetics 24:309-311. Dec. 1960. °

4200 Irving, James.
Household and relationship structures in a South African non-industrial urban area. Tydskrif vir Maatskaplike Navorsing (Journal for Social Research) (Pretoria) 6(1):5-24. June 1955.

Report on sociological field study of households by ethnic group in Grahamstown, Cape Province (23,500 population). Includes data on age-sex composition, occupations, and employment status.

4201 Lystad, Mary H.
Family patterns, achievements, and aspirations of urban Negroes. Sociology and Social Research 45(3):281-288. April 1961.

Part of a larger study of "family patternings and socialization practices" of New Orleans Negroes being conducted under the auspices of the Collaborative Child Development Project, Charity Hospital of Louisiana, under grant from the U. S. Public Health Service. Project involved 100 Negro families.

4202 Persiani, Mattia.
La famiglia del lavoratore [The worker's family]. Rassegna del Lavoro (Rome) 7(1-2):27-57. Jan.-Feb. 1961.

A study of financial, juridical, sociological, and ethical aspects of the current Italian situation. Includes discussion of the effect of family contributions by public authorities, social insurance, and labor migration within the European Economic Community.

4203 Prokopec, Jiří, and Musil, Jiří.
Stav našeho bydlení. 2. Bydlení společenských skupin [Our housing situation. 2. Housing of social groups]. Demografie (Prague) 3(2):157-171. 1961. Russian and English summaries.

For citation of Part I, see 27: Title 3260.

4204 Sova, V., and Toman, J.
K problémům vývoje rodiny [The problem of the development of families]. Statistický Obzor (Prague) 41(4):165-169. April 1961. English summary.

Discussion of present and prospective functions in socialist societies.

4205 Tamásy, József.
Magyarország népességének családösszetétele. Az 1960. évi népszámlálás 1%-os képviseleti feldolgozása alapján [Family pattern of Hungary's population. Based on the one per cent sample of the 1960 census]. Demográfia (Budapest) 4(2): 135-170. 1961. Russian and English summaries.

Analysis of data on composition of families, marital status of head, family type, number of children, family size, dependency of members, and socio-economic characteristics. Comparisons with 1949 data. For some distributions comparisons between Budapest, the towns of county and district rank, and the villages.

4206 Vukovic, B., et al.
[Household in Montenegro considered from the standpoint of social development in our country; with related discussion.] Pravni Zbornik (Titograd) 10(1):1-65. Jan. 1961. In Serbocroatian.°

4207 Willmott, Peter, and Young, Michael.
Family and class in a London suburb. London, Routledge and Kegan Paul, 1960. XIII, 187 pp.

A survey by the Institute of Community Studies, combining anthropological and sociological approaches. Analysis of findings and report on methodology.

4208 Zopfy, Franz.
Haushalts- und Familienstatistik. Sonderauswertung des Mikrocensus 1957 [Household-and family statistics. Special study of the sample census of 1957]. Zeitschrift des Bayerischen Statistischen Landesamtes (Munich) 91(3/4):144-156. 1959.

Summary of data for Bavaria on household size and composition, marital and labor-force status of head, numbers and types of dependents. [P.R.T. 16(1)] For description of the sample census, see 27: Titles 1246 and 3446.

[See also Titles 4004, 4019, 4028, 4029, 4065, 4089, 4109, 4111, 4158, 4165, 4167, 4172, 4173, 4185, 4186, 4189, 4195, 4196, 4218, 4230, 4257, 4260, 4289, 4371, 4372, 4475, 4490, 4518, 4527]

H. INTERNATIONAL MIGRATION

General

4209 Amiral, Ilídio do.
Aspectos do povoamento branco de Angola [Aspects of the white peopling of Angola]. Junta de Investigações do Ultramar, Estudos, Ensaios e Documentos, 74. Lisbon, 1960. 83 pp. English and French summaries.

Historical and statistical account of immigration and summary of census data on trends in numbers, density patterns, demographic characteristics, occupations and employment status, ethnic proportions.

4210 Chevalier, Louis.
L'immigration en France: 1950-1960 [Immigration in France, 1950-1960]. Population (Paris) 16(1):113-116. Jan.-March 1961.

Statistical notes on trends, dealing particularly with labor migration.

4211 George, Pierre.
Remarques sur l'émigration néerlandaise [Notes on emigration from the Netherlands]. Annales de Géographie (Paris) 69(375):527-531. Sept.-Oct. 1960.

4212 International Labour Office.
Migration. Industry and Labour (Geneva), Vol. 25, Nos. 6-12. March 15-June 15, 1961.

No. 6. None.

No. 7. Migration to and from Belgium in 1959. Migration to and from Italy in 1957, 1958 and 1959.

No. 8. Migration to and from Union of South Africa in 1959.

No. 9. Migration under the auspices of the Intergovernmental Committee for European Migration in 1960.

No. 10. Intergovernmental Committee for European Migration: thirteenth session of the Council. Migration from and to Ireland in 1959. Lebanese emigration in 1958 and 1959.

No. 11. Japanese emigration from 1952 to 1960. Non-African migratory movements to and from the Federation of Rhodesia and Nyasaland in 1960.

No. 12. Extension of the Japanese-Bolivian migration agreement. Immigration of workers into France, 1960. Migration to and from the Netherlands, 1960. Immigration to the United States, 1959-1960.

4213 McArthur, Neil, and Gerland, Martin E.
The spread and migration of French Canadians. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 52(6):141-147. June 1961.

General history of geographical distribution, internal migration, and migration across the United States border since the seventeenth century.

4214 McDougall, Duncan M.
Immigration into Canada, 1851-1920. Canadian Journal of Economics and Political Science 27(2):162-175. May 1961.

"In Part I estimates are derived of the natural increase in the Canadian population by decades from 1851 to 1931 based on survival rates derived from life tables. The figures on natural increase then permit the derivation of net migration estimates. In Part II new estimates of immigration are developed that, together with the net migration figures of Part I, yield estimates of emigration by decades. Part III tests some of the results by an examination of the limited information available on other aspects of Canada's economic development in the period."

Comment. By Nathan Keyfitz. Ibid:242-243.

4215 Rassegna del Lavoro.
La emigrazione italiana nel 1960 [Italian emigration in 1960]. Rassegna del Lavoro (Rome) 7(1-2):69-73. Jan.-Feb. 1961.

Survey of data of 1959 and 1960 on assisted emigration of workers and their families, by country and type (permanent and temporary).

4216 Review of the River Plate.
The immigration trickle. Review of the River Plate (Buenos Aires) 129(3423):17. May 23, 1961.

Summary of data on immigration into Argentina in 1959 and 1960. Notes on past trends, countries of origin, and recent government agreement for settlement of Algerian and North African immigrants in Argentina.

4217 Sermet, J.
La nouvelle émigration espagnole [The new Spanish emigration]. Revue Géographique des Pyrénées et du Sudouest (Toulouse), Sept. 1960. Pp. 295-306.

Size, destination, original residence, organization. [B.A.D. 16(1)]

4218 Sicron, Moshe.
Immigration to Israel, 1948-1953. Statistical supplement. Falk Project for Economic Research in Israel and Central Bureau of Statistics, Special Series 60. Jerusalem, Dec. 1957. [x], 86, [xi] pp.

See 24: Title 3376 for citation of text volume. Tables for chapters: Jewish immigration to Palestine during the mandatory period, 1919-1948; Volume and intensity of immigration to Israel; Country of origin; Age structure; Sex composition; Marital status; Family structure; Participation in labor force; Occupations abroad.

4219 Turner, G. E.
Indian immigration. Malayan Historical Journal (Kuala Lumpur) 1(2):80-84. Dec. 1954.

"Some historical data from 1907 gleaned from the minutes of the Indian Immigration Committee." [S.A.S.S.B., No. 8]

4220 Zubrzycki, Jerzy.
Greek immigrants in Australia. A demographic survey. Migration (Geneva) 1(2):45-54. April-June 1961.

A summary of the background and recent scale of Greek migration to Australia, the geographical distribution of Greek immigrants in 1954, and their occupational distribution.

[See also Titles 4011, 4020, 4021, 4031, 4034, 4037, 4048, 4051, 4052, 4111, 4112, 4213, 4214, 4232, 4299, 4307, 4317, 4321, 4333, 4361, 4370, 4377, 4380, 4395, 4418-4421, 4423, 4424, 4466, 4502, 4521, 4524]

Settlement and Resettlement

4221 Rodrigues Junior.
Colonização: contribuição para o seu estudo em Moçambique [Colonization: contribution for its study in Mozambique]. Lourenço Marques, Africa Editôra, 1959. 211 pp. °

[See also Titles 4034, 4037]

Temporary Movements

4222 Castellani, Antonio.
Lo scambio di giovanni lavoratori [The exchange of young workers]. Rassegna del Lavoro (Rome) 7(2):1715-1723. Nov. 1960.

Discussion of the terms of the arrangement for labor migration within the European Economic Community and of the administration of the exchanges.

[See also Titles 4067, 4202, 4210, 4232, 4425]

Refugees

4223 Economic Weekly. [Bombay.]
Migration from East Pakistan (1951-1961). Economic Weekly (Bombay) 13(15): 609, 611, 612. April 15, 1961.

"... a few surmises on the extent of migration out of East Pakistan to the neighbouring States of India on either side" based on the provisional population totals by district of the Indian 1961 census and Census Bulletin No. 1 of the Pakistan 1961 census. Comparisons with official migration statistics. Notes also on intercensal changes in sex ratios. Tables.

4224 Saksena, R. N.
Refugees: a study in changing attitudes. London, Asia Publishing House, 1961. viii, 119 pp. End-paper cartograms.

Report of findings of a 10 per cent random sample survey (854 families) of refugee families in Dehra Dun, Uttar Pradesh (in 1956). Data classified by sex, three age groups, and three income groups. Description of the refugee population and the sample design.

4225 U. S. Department of State.
World Refugee Year, July 1959-June 1960. Report on participation of the United States Government. Department of State Publication 7095. General Foreign Policy Series, 158. Washington, Govt. Printing Office, Dec. 1960. 17 pp.

[See also Titles 4011, 4370, 4422]

I. INTERNAL MIGRATION

General

4226 Bunting, Robert L., et al.
Labor mobility in three southern states. Industrial and Labor Relations Review 14(3):432-445. April 1961.

Report of analysis of BOASI data (one per cent continuous work history sample) for 1953 in North Carolina, South Carolina, and Georgia. Aspects considered: the

extent and characteristics of mobility; migration rates among metropolitan and nonmetropolitan workers; labor flow from the three-state area; distance and composition of mobility.

4227 Centro do Sociología Aplicada.
Las migraciones en España [Migration in Spain]. Documentación Social, 4. Madrid, [1958]. 75 pp.°

4228 Colorado. Legislative Council. Committee on Migratory Labor.
Migratory labor in Colorado: a progress report to the Colorado General Assembly. Colorado, Legislative Council, Research Publication 43. [Denver, 1960.] 37 pp.°

4229 Dieteren, R.
De migratie in de mijnstreek 1900-1935 [Migration in the mining region, 1900-1935]. Maastricht, Sociaal-Historisch Centrum, 1959. xiv, 232 pp.°

4230 Donnison, D. V.
The movement of households in England. Journal of the Royal Statistical Society, Series A 124(1):60-80. 1961.
Report of analysis of research data from a sample survey of 3,137 private households in July 1958. "Movement should ... be regarded as a dynamic process—a continuing flow.... Four aspects of this flow will be examined here: the households that move, the houses they live in, the distance and direction of their moves, and the aspirations and intentions of the movers."

4231 Ohio. Legislative Service Commission.
Migrant workers in Ohio. Staff Research Report 49. Columbus, 1961. 61 pp.
Statistical study 1956-1960 covering: farm labor migrancy and state policy; Ohio's farm migrants; the farm labor problem; socio-economics of farm labor migrancy; problems and possible solutions. Maps and statistical appendix, Characteristics of migrant worker areas in Ohio.

4232 Orientamenti Sociali.
Le migrazioni interne ed internazionali nel mondo contemporaneo (XXIIIe settimana sociale dei cattolici d'Italia) [Internal and international migration in the world today (23rd social week of the Catholics of Italy)]. Orientamenti Sociali (Rome), July 1960. Pp. 242-266.
A series of articles dealing with recent trends in labor migration, internal migration, and policy on labor and family migration.

4233 Rohrer, Wayne C.
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4234 Zihlmann, Hans.
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[See also Titles 4011, 4020, 4029, 4034, 4051, 4073, 4074, 4076, 4079, 4089, 4093, 4200, 4213, 4289, 4299, 4377, 4379, 4395, 4414, 4464, 4474, 4502, 4521, 4527]

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Report of a sample study, part of the research by the Socio-Economic Mission of Senegal (MISOES) in connection with the plan for economic development of the Senegal valley. Consideration of causes and consequences of the rural-urban migration and of the mode of life of the migrants at Dakar. Statistics on demographic

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4241 Markandan, P.
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J. CHARACTERISTICS

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[See also Titles 4001, 4004, 4012, 4015, 4033, 4034, 4051-4053, 4057, 4060, 4062-4064, 4068, 4089, 4103, 4107, 4111, 4115, 4117, 4120, 4140, 4168, 4200, 4209, 4223, 4233, 4236, 4274, 4289, 4310, 4317, 4355, 4358, 4359, 4372, 4426, 4463, 4487, 4488, 4514, 4519, 4525]

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4247 Hutchinson, John J.
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4252 Dennison, S. R.
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4255 Hawaii. Department of Planning and Research.
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4256 Herbst, František.
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4258 [Indian Statistical Institute.]

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4259 Liebenberg, Maurice, and Fitzwilliams, Jeannette M.

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4261 London and Cambridge Economic Service.

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4262 New York. State Department of Labor. Division of Employment. Bureau of Research and Statistics.

Teenagers and young adults - their work experience. New York State and New York City, 1956-1957: based on data from a special sample survey of the New York State noninstitutional population 14 years old and over made by the U. S. Bureau of the Census in March 1957. New York, March 1960. viii, 112 pp., processed.°

4263 Orleans, Leo A.

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4264 Paillat, Paul.

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4273 Wirtschaftswissenschaftsliches Institut der Gewerkschaften.

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4274 Yin, Helen, and Yin Yi-Chang, Compilers.

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[See also Titles 4043, 4053, 4057, 4064, 4068, 4069, 4081, 4085, 4087, 4088, 4097, 4098, 4114, 4119, 4203, 4205, 4209, 4220, 4236, 4257, 4290, 4300, 4307, 4310, 4322, 4323, 4325, 4326, 4328, 4332-4334, 4336, 4338, 4339, 4341, 4349-4352, 4354, 4356, 4358, 4359, 4378, 4427, 4437, 4447, 4449, 4450, 4460, 4462-4464, 4474, 4480, 4493, 4497, 4498, 4514, 4521, 4522, 4525, 4527]

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4275 Centre de Recherches Socio-Religieuses. Bureau de Namur.

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4276 Daniel, Yvan.

L'équipement paroissial d'un diocèse urbain: Paris, 1802-1956; population, paroisses, lieux de culte, clergé, éléments statistiques [The parochial equipment of an urban diocese: Paris, 1802-1956; population, parishes, places of worship, clergy, statistical components]. Collection de Sociologie Religieuse, 2. Paris, Editions

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4277 Evêché. Diocèse de Versailles.
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4278 Maître, Jacques.
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4279 National Council of Churches.
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4280 Neuweld, Mark.
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4281 Rosenthal, Erich.
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[See also Titles 4053, 4057, 4062, 4068, 4085, 4098, 4115, 4120, 4168, 4209, 4260, 4263, 4268, 4271, 4310, 4326, 4333, 4351, 4357, 4370, 4371, 4378, 4426, 4427, 4429, 4446, 4464, 4490, 4491, 4514, 4521, 4525, 4527]

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4283 East African Statistical Department. Uganda Unit.
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4284 Levin, M. G., and Potapov, L. P., Editors.
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4286 Mironenko, IU. P.
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4289 Salzano, Francisco M.
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K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

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The problem of food and population in India. Bulletin of the Ramakrishna Mission Institute of Culture (Calcutta), 10(2):31-38. Feb. 1959.

4293 Enke, Stephen.
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Comment on views by E. E. Hagen on economic justification of protection. Presentation of a model "that determines the maximum possible industrialization given total food availability."

4294 Gulliver, P. H.
Nyakyusa land and population: the lake plains in Rungwe district. N.p., Rungwe Provincial Administration, 1956. 34 pp. °

4295 Marcus, Edward.
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4296 Niddrie, David L.
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4297 Prescott, J. R. V.
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4298 Sperry, Theodore M.
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4299 Tanner, R. E. S.
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4300 Andic, Suphan, and Peacock, Alan T.
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4303 Centro Latino-Americano de Pesquisas em Ciências Sociais.
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4304 Chandrasekhar, S.
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4305 Corden, W. M.
Limites económicos al incremento de población [Economic limits to population increase]. Revista de Desarrollo Económico (Buenos Aires), Vol. 2, No. 2. Jan.-March 1959.°

4306 Davis, Joseph S.
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4307 Economic Development and Cultural Change.
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Spengler, Joseph J. Population change: cause, effect, indicator. Pp. 249-266.

Patel, Surendra J. Rates of industrial growth in the last century, 1860-1958. Pp. 316-330.

Easterlin, Richard A. Influences in European overseas migration before World War I. Pp. 331-351.

Marczewski, Jan. Some aspects of the economic growth of France, 1660-1958. Pp. 369-386.

Creamer, Daniel. Some determinants of low family income (based on family income statistics for New York State, 1949). Pp. 413-440. [Based in part on "a unique set of unpublished tabulations derived from the 1950 Census of Population."]

Rosovsky, Henry, and Ohkawa, Kazushi. The indigenous components in the modern Japanese economy. Pp. 476-501.

Floersheim, Rachel. Bibliography of the works of Simon Kuznets. Pp. 550-560.

4308 Eizenga, Wietze.
Demographic factors and savings.

Contributions to Economic Analysis, 22. Amsterdam, North-Holland Publishing Co., 1961. x, 107 pp.

Chapters include: A growing population and a constant hump curve (General formulation; Determinants of birth and death figures; Impact of changes in these on savings; Realism of Harrod's views; Immigration and emigration; Changes in age of retirement, of entry into the labor market; Other changes); Impact of changes in family size, age, and occupation structure of population on the long-run savings-income ratio in the United States, 1900-1950.

4309 Ganon, Isaac.

Factores demográficos que retarden el desarrollo económico y social del Uruguay [Demographic factors that retard the economic and social development of Uruguay]. Boletim, Centro Latino-americano de Pesquisas em Ciências Sociais (Rio de Janeiro) 3(2):3-14. May 1960.

4310 Institute of Development Economics.

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Tachi, Minoru, and Kuroda, Toshio. Trends in population growth and economic development in Japan. Pp. 39-59.

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Qureshi, D. M. Population—foodgrains relationship in West Pakistan. Pp. 124-135.

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L. OTHER INTERRELATIONS

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The sickness survey of Denmark, 1951-1954: a statistical analysis of the general morbidity and certain other related matters. By Marie Lindhardt. Translated from the Danish by W. E. Calvert. Copenhagen, Munksgaard, 1960. 263 pp. °

For summary, see 27: Title 1460.

4387 Firschein, I. Lester.
Population dynamics of the sickle-cell trait in the Black Caribs of British Honduras, Central America. American Journal of Human Genetics 13(2):233-254. June 1961.

Analysis of observations obtained during four visits (1955-1957) to five Black Carib villages. "The chief emphasis of the present paper is on evidence that the sickle-cell gene has been maintained in this population at frequencies far above those to be expected on the usual assumption concerning the effect of natural selection on a lethal gene. A suggestion is offered on the possible effect malaria in British Honduras may have had in maintaining the high value of the sickle-cell trait observed."

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Report on an African demographic survey [Lourenço Marques]. Tydskrif vir Maatskaplike Navorsing (Journal of Sociological Research) (Pretoria) 10:1-24. Dec. 1959.

Report on a cancer survey in the suburbs of Lourenço Marques, with discussion of survey methods.

4389 Learmonth, A.T.A.
Medical geography in India and Pakistan. Geographical Journal 127(1):10-26. March 1961.

Includes text of discussion by Dudley Stamp and others. Covers major aspects of statistics, hypotheses, and uses of medical geography.

4390 McGregor, I. A.
Demographic effects of malaria with special reference to the stable malaria of Africa. West African Medical Journal (Ibadan) 9:260-265. Dec. 1960. °

4391 May, Jacques M.
The ecology of human disease, in culture, society and health. Annals of the New York Academy of Sciences, 84(17):789-794. 1960.

4392 Morris, J. N., et al.
Hardness of local water-supplies and mortality from cardiovascular disease in the county boroughs of England and Wales. The Lancet 7182:860-862. 1961.

"Correlations were calculated between (a) death rates from thirty-eight causes and groups of causes of death in 170 sex-age brackets ... and (b) indices of average hardness of the local water." Preliminary report gives data on mortality for 83 county boroughs 1948-1954, water indexes 1951, and various social indexes 1951.

4393 Rogers, Edward S.
Human ecology and health. An introduction for administrators. New York, Macmillan, 1960. xviii, 334 pp.

Parts: Demographic background; The health status of the population of the United States; An ecologic approach to the concept of health and illness; Readings and related tables.

4394 Schroeder, H. A.
Relations between hardness of water and death rates from certain chronic and degenerative diseases in the United States. Journal of Chronic Diseases 12:586-591. Dec. 1960.°

4395 Prothero, R. Mansell.
Population movements and problems of malaria eradication in Africa. Bulletin of the World Health Organization (Geneva) 24(4-5):405-425. 1961. French summary.

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4396 Raymond, V.
Influence des ambiances atmosphériques sur la mortalité dans la région parisienne [Influence of atmospheric environment on mortality in the Paris region]. Presse Médicale (Paris) 69(8):369-371. Feb. 18, 1961.

Comparison of monthly distributions of deaths from respiratory ailments in Paris, the suburbs, and neighboring departments.

4397 Trowell, H. C.
Non-infective disease in Africa. London, Edward Arnold, 1960. 481 pp.

"The range includes the diseases of the special systems, and the endocrine organs, nutrition, and disturbances of electrolytes; and there is a final chapter on the African milieu intérieur and the incidence of disease. Differences between biological values in Bantus and Europeans are discussed...." [Lancet 7187]

4398 Vukovich, György.
Az alkoholizmus egyes demográfiai és szociális jellemzöi. Az alkoholistákra vonatkozó felvétel és fogyasztási adatok alapján [Some demographic and social issues of alcoholism. Based on a survey of alcoholics and of consumption data]. Demográfia (Budapest) 4(2):211-244. 1961. Russian and English summaries.

Analysis of data on alcoholic consumption, mortality and morbidity in Hungary 1928/29-1959 and of data on demographic and socio-economic characteristics of 1300 alcoholics obtained by the Central Statistical Office in a survey of those taking a "tapering-off cure" at the Alcoholist Dispensary in Budapest.

4399 World Health Organization.
Insecticides and malaria. Bulletin of the World Health Organization (Geneva) 24(4-5): 399-677. 1961. Texts in English or French with summaries in the other language.

A group of 26 articles and 13 shorter notes on problems, methods, and results of eradication in many areas. See also Title 4395, this issue.

[See also Title 4004, 4130, 4138, 4144, 4287, 4310, 4351, 4353, 4464, 4466]

Demographic and Other Factors

4400 Freire-Maia, N., et al.
Lethal mutations in Brazilian human populations. Nature 189:80-81. Jan. 7, 1961.°

4401 Gates, R. R.
Australian aborigines and genetics. Nature 189:423. Feb. 4, 1961.°

4402 Russell, Liane B.
Genetics of mammalian sex chromosomes. Science 133(3467):1795-1803. June 9, 1961.

"Discussions in this article focus primarily on the results of experimental work in the mouse, with special emphasis on new and hitherto unpublished findings.... The findings discussed shed light on the functions of the sex chromosomes, both with respect to sex determination and with respect to other actions, and on the mechanisms by which anomalies in chromosome number come about."

[See also Title 4468]

M. POLICIES

General Population Policy

4403 Georgia. General Assembly. Joint Committee on the Operations of the General Assembly.
"Population" acts since 1870. Prepared by the Joint Committee on the Operations of the General Assembly and Office of Legislative Counsel. Atlanta, [1960]. 369 pp.°

4404 Le Brun, Pierre, et al.
Le Plan Sauvy, commenté par.... [The Sauvy Plan, with comments by....]. Questions d'Actualité. Paris, Calmann-Lévy, [1960]. 220 pp.
The recommendations for a national policy include the planning of new towns. Commentators include André Philip and Pierre Mendès-France. [I. A. 37(3)]

4405 U. S. Joint Publications Research Service.
Premier Chou En-Lai speaks on population. Communist China Digest (Washington), No. 32, Feb. 14, 1961. JPRS:6751.
Text of television interview with British correspondent Felix Greene, Peiping, NCNA-English, Nov. 4, 1960.
"Education on planned parenthood was and continues to be carried on in China mainly to protect the health of mothers and provide favorable conditions for bringing up children, not because of so-called 'population pressure'."

[See also Titles 4355, 4382, 4409, 4463, 4481]

Measures Affecting Fertility

4406 Familles dans le Monde.
Mesures en faveur de la famille en France [Measures for the benefit of families in France]. Familles dans le Monde (Paris), Nos. 2/3, June-September 1960. Pp. 107-130.

4407 India. Madras. [Panchayat Administration.]
Family planning and rural administration in Madras State. Population Review (Madras) 5(1):63-66. Jan. 1961.
Text of instructions to the Panchayat Administration on the intensive scheme for the popularization of surgical methods of family planning.

4408 Krotkiewska, Lidia.
Warunki dopuszczalnosci przerywania ciazy; teksty i komentarz [Conditions warranting abortion; texts and commentary]. 2nd ed., rev. and enl. Warsaw, Panstwowy Zaklad Wydawn. Lekarskich, 1959. 54 pp.°

4409 Mamoria, C. B.
Population and family planning in India. Allahabad, Kitab Mahal, 1959. 167 pp.
A comprehensive discussion of the nature of India's population problem and the government's population policy. Aspects considered: history of controls; current issues; methods of contraception; improvement of the quality of the population; present government policy on family planning.

4410 Poland. Panstwowe Wydawnictwo Prawnicze.
[Infanticide, section 226 of the Criminal Code.] Lawnik Ludowy (Warsaw) 11(1):29. Jan. 1961. In Polish.°

4411 Quay, Eugene.
Justifiable abortion: medical and legal foundations. Georgetown Law Journal 49: 173-256. Winter 1960. To be continued.°

4412 Regan, Richard J.
The Connecticut birth control ban and public morals. The Catholic Lawyer 7:5-10. Winter 1961.°

[See also Titles 4026, 4178, 4179, 4182, 4191, 4193, 4202, 4310, 4380, 4381, 4405, 4463, 4468, 4469, 4475]

Policy on Internal Redistribution

4413 Horrell, Muriel.
The economic development of the "reserves": the extent to which the Tomlinson Commission's recommendations are being implemented. South African Institute of Race Relations, Fact Paper 3. Johannesburg, 1959. 26 pp., processed.
"Concerning geographic restrictions imposed on the African population." [P.A.I.S. 47(31)]

4414 Laballe, Gérard.
Déséquilibres régionaux et politique de population [Regional disequilibria and population policy]. Bulletin d'Information du Ministère de la Santé Publique et de la Population (Paris), No. 1-2, 1958. Pp. 22-28.
Discussion of problems of spontaneous

and encouraged migration, industrial decentralization, and rural exodus.

4415 U. S. Joint Publications Research Service.

Nomadic people must settle down. Communist China Digest (Washington), No. 14, May 2, 1960. JPRS:3206. P. 87. Translation from an article in Jen-min Jip-pao, Dec. 14, 1959.

Notes on plans, accomplishments, and problems in settling herdsmen at fixed abodes established by the People's Communes in Inner Mongolia, Sinkiang, Tsinghai, and Kansu.

4416 Wang Pi.

Urban housing in new China. Selections from China Mainland Magazines (Hongkong), No. 244, Jan. 1961. Pp. 29-31. Translation from Pei-ching Chou-pao [Peking Review], No. 51, Dec. 20, 1960.

Contains statistics on new cities, urban renewal, and sedentarization of nomads since 1949.

4417 Wiederhold, Hans.

Zum Planungsinhalt und Planungsverband bei Massnahmen zur Verbesserung der Agrarstruktur [The planning area and the planning unit in arranging the improvement of the agricultural structure]. Raumforschung und Raumordnung (Bad Godesberg) 19(1):6-12. 1961.

[See also Titles 4052, 4066, 4070, 4084, 4086, 4091, 4095-4097, 4228, 4231, 4232, 4240, 4241, 4285, 4404, 4430]

Policy on International Migration

4418 Campbell, H. Murray.

Mexico's immigration law: an explanation. Mexican-American Review (Mexico, D.F.) 29:29-33. May 1961.°

4419 Cuadernos de Política Social.

Emigración: política social y seguridad social [Emigration: social policy and social security]. Cuadernos de Política Social (Madrid) 3(2):7-78. 1960.

Report of the section on social policy of the Institute of Political Studies, 1959. [B.A.D. 16(1)]

4420 Holborn, Louise W.

Intergovernmental partnership for planned migration. Migration (Geneva) 1(2):5-18. April-June 1961.

A review of the operations of the Intergovernmental Committee for European Migration [ICEM], February 1952 to January 1961, as successor to the IRO.

4421 International Catholic Migration Commission.

[A group of articles on the first ten years' operation of the Commission.] Migration News (Geneva) 10(4):1-32. July-August 1961.

4422 Interpreter Releases.

Refugee provisions of Public Law 86-648. Interpreter Releases 37:253-262. Aug. 22, 1960.

"To enable the United States to participate in the resettlement of certain refugees and for other purposes." [P.A.I.S. 47(30)]

4423 Meier, E. M.

Emigratiebeleid op de helling [Emigration policy and the economic trend]. Economie (Tilburg) 25(8):407-420. May 1961.

Examination of statistics for the Netherlands, 1955-1960, on international migration, investment, and prices.

4424 Sanz Orrio, Fermín.

Discurso del Excmo. Sr. Ministro de Trabajo, D. Fermín Sanz Orrio, ante las Cortes Españolas, sobre la ley de bases de la emigración [Speech of His Excellency the Minister of Labor ... before the Spanish Cortes on the basic emigration law]. Revista de Trabajo (Madrid) 22(6):9-24. Nov.-Dec. 1960.

4425 U. S. Congress. House. Committee on Agriculture. Subcommittee on Equipment, Supplies, and Manpower.

Extension of Mexican farm labor program: hearings before Subcommittee ... 87th Congress, 1st Session, on H. R. 2010, March 6-17, 1961. [Committee Hearings] Serial B, 87th Congress. Washington, 1961. vi, 370 pp. °

[See also Titles 4031, 4049, 4112, 4212, 4215, 4216, 4222, 4225, 4232, 4370, 4466]

Policy on Quality

4426 Dimitras, Elie.

Facteurs démographiques et sociogéographiques intervenant dans la planification

de la lutte contre l'analphabétisme [Demographic and socio-geographical factors that enter into the planning of the campaign against illiteracy]. Tiers-Monde (Paris) 1(1-2):174-177. Jan.-June 1960. [Document prepared at the request of the Centre de Recherches sur l'Education de Base, of Greece. Notes on age-sex structure, geographical distribution, and ethnic distributions.]

L'utilisation des statistiques démographiques et scolaires pour la prévision du niveau d'instruction des jeunes classes de la main-d'oeuvre [Utilization of demographic and educational statistics in the projection of the level of schooling of the young age groups of workers]. Ibid. Pp. 178-179.

4427 Moreira, Roberto.
População economicamente ativa e necessidades educacionais [Economically active population and educational needs]. Boletim, Centro Latino-americano de Pesquisas em Ciências Sociais (Rio de Janeiro) 3(2):38-50. May 1960.°

4428 Pakistan. Planning Commission.
The development and utilization of manpower. MP-1. [Karachi], Nov. 1960. 18 pp.

"... an elaboration of the recommendations of the Second Five Year Plan relating to the development and utilization of Pakistan's manpower resources."

4429 Pressat, R.
Démographie et enseignement [Demography and teaching]. Essais (Paris), June-Sept. 1960. Pp. 213-240.

The problem of recruiting schoolmasters and professors in view of population expansion; the objectives of a teaching policy. [B.A.D. 16(1)]

4430 Schultz, Theodore W.
Investment in human capital. American Economic Reviews 51(1):1-17. March 1961.

"I shall comment, first, on the reasons why economists have shied away from the explicit analysis of investment in human capital, and then, on the capacity of such investment to explain many a puzzle about economic growth. Mainly, however, I shall concentrate on the scope and substance of human capital and its formation. In closing I shall consider some social and policy implications." Comments include policy on rural-urban migration.

[See also Titles 4338, 4409]

N. METHODS OF RESEARCH AND ANALYSIS

4431 El-Badry, M. A., and Moustafa, M. D.
Derivation and estimation of the parameters of the Man-Power Survey for Egypt (II). Bulletin de l'Institut International de Statistique (Tokyo) 38(2):301-305. 1961. French summary.

Report on a reconsideration of the sample design and techniques described in the paper cited in Title 4437, this issue.

4432 Bene, Lajos, and Tekse, Kálmán.
Mintavételi módszerek az 1960. évi népszámlálás adatainak elözetes feldolgozásánál [Sampling methods in the preliminary processing of 1960 Population Census data]. Statisztikai Szemle (Budapest) 39(3):235-251. March 1961.

4433 Cochran, William G.
Comparison of methods for determining stratum boundaries. Bulletin de l'Institut International de Statistique (Tokyo) 38(2): 345-358. 1961. French summary.

"In this paper four of the simplest methods will be compared on actual as distinct from theoretical populations." Eight variables include population of U. S. cities in 1940.

4434 Gupta, Ajit.
An empirical approach to measurement of underemployment. Bulletin de l'Institut International de Statistique (Tokyo) 38(2): 259-267. 1961. French résumé.

Discussion of the approach, elements to be measured, and forms and comparisons, based on the experience of Ceylon.

4435 Goldberg, David, and Balakrishnan, T. R.
A partial evaluation of four estimation techniques. Michigan Population Studies, No. 2. Ann Arbor, Department of Sociology, Institute of Public Administration, University of Michigan, 1961. 7 pp., processed.

Paper presented at the meetings of the Social Statistics Section, American Statistical Association 1960.

4436 Loeben, Arthur F.
Analysis of stead distribution by the D-line method: a suggested method for the delimitation of population clusters. [Norristown, Pa., Planning Commission, Montgomery County], 1958. 38 pp.°

4437 Moustafa, M. D., and El-Badry, M. A.
Derivation and estimation of the parameters of the Man-Power Survey for Egypt (I). Bulletin de l'Institut International de Statistique (Tokyo) 38(2):291-300. 1961. French summary.
Description of sample design and analytical techniques; presentation of and comment on results for the Cairo region. See also Title 4431, this issue.

4438 Onate, Burton T.
Development of multi-stage designs for statistical surveys in the Philippines. I. Philippine Statistical Survey of Households. Statistical Reporter (Manila) 4(4):1-48. Oct. 1960.
Description of existing and proposed developments, including: background; sample design; proposed rotation of sample; ratio estimation; composite estimation; summary and recommendations.

[See also Titles 4001, 4016, 4018-4020, 4029, 4071, 4077, 4106, 4108, 4114, 4119, 4127, 4140, 4141, 4157-4159, 4214, 4230, 4246, 4300, 4308, 4313, 4324, 4345, 4362, 4426, 4451, 4454, 4455, 4464, 4466, 4472, 4474]

O. ORGANIZATION & ADMINISTRATION

Registration of Vital Statistics

4439 Gaidai, N.
[Correction of civil status records.] Sotsialisticheskaîa Zakonnost (Moscow) 38(1-2):36-38. Jan. 1961. In Russian.°

4440 Gilot, P.
Manuel de l'officier de l'état civil au Congo belge [Handbook for the civil registration officer in the Belgian Congo]. Brussels, F. Larcier, 1957. 296 pp.°

4441 Kassatsier, M. IA.
[On the standardization of mortality indexes.] Sovetskoe Zdravookhranenie (Moscow) 19(10):67-69. 1960. In Russian.°

4442 Lipinski, Kazimierz.
O aktach stanu cywilnego; rejestraja urodzen, malzenstw i zgonow, zmiana imion i nazwisk. Dodatek: Tekst prawa o aktach stanu cywilnego i przepisow zwiazkowych wg. stanu prawnego na dzien 15.VI.1956 r. [Records of vital statistics; registration of births, marriages and deaths, changes of first and last names. Includes supplement: Text of law on records of vital statistics and related regulations as of June 15, 1956.] Warsaw, Wydawn. Prawnicze, 1956. 138 pp.°

4443 Royal Statistical Society.
Current Notes. United Kingdom official statistics. Journal of the Royal Statistical Society, Series A, 124(2):269-271. 1961.
Includes notes on provisions for reporting cause of death for all stillbirths in England and Wales, beginning Oct. 1, 1961, under the Population (Statistics) Act, 1960.

4444 Sweden. Statistiska Centralbyrån.
Flerbördsregister i statistiska centralbyrån [Multiple births register in the Central Bureau of Statistics]. By T. W-m. Statistisk Tidskrift 10(5):292-293. May 1961.

[See also Titles 4013, 4017, 4050, 4055, 4147, 4448, 4467]

Population Censuses and Registers

4445 Amerkhail, Najibullah.
A census design for Afghanistan. Population Review (Madras) 5(1):46-62. Jan. 1961.
Notes on background information about the country and people, administration and scope of the proposed census, and problems of planning and execution.

4446 Bergonzini, Luciano.
Proposte per l'accertamento dell'istruzione reale nell'occasione del prossimo censimento demografico [Proposals for the ascertainment of the actual level of instruction in the next population census]. Statistica (Bologna) 21(1):3-18. Jan.-March 1961.
Outline of proposals for the measurement of illiteracy, semi-literacy, and literacy levels in Italy.

4447 Bezouška, J., and Vytlačil, J.
Provdení mikrocensu 1961 v ČSSR [1961 sample census in Czechoslovakia]. Statistický Obzor (Prague) 41(5):204-209. May 1961. English and Russian summaries in leaflet insert.
Report on a two-stage sample survey of households in April 1961 as a follow-up of the population census in March 1961. Data

concern incomes, expenses, and employment of women.

4448 Buechley, Robert W.
A reproducible method of counting persons of Spanish surname. Journal of the American Statistical Association 56(293): 88-97. March 1961.

History of attempts by U. S. Census since 1930 to count Spanish-named, Spanish-speaking population of Mexican origin within the United States. Description of methods employed in the California 1953 Birth Index. Proposal of revised U. S. census technique.

4449 Czechoslovakia. Státní Úrad Statistický.
Sčítaní lidu, domů a bytů. Podklad pro zkoumání životní úrovně obyvatelstva [Population and housing census; storehouse for research on the level of living of the inhabitants]. By Frantisek Fájfr et al. Knižnice Státního Úradu Statistického. Prague, 1960. 202 pp.

Exposition and tabular analysis of the scheduled content of the 1961 census of Czechoslovakia, including comparison with previous censuses in Czechoslovakia and with the 1939 and 1959 censuses in the U.S.S.R.

4450 Glowinski.
Volks-, Berufs- und Arbeitsstättenzählung am 6. Juni 1961 [Census of population, occupations and workplaces of June 6, 1961]. Berliner Statistik Monatschrift 15(6):136-141. June 1961.

Description of precensal and postcensal programs as well as the enumeration plans for the census in West Berlin. See also Title 4453, this issue.

4451 Hansen, Morris H., et al.
Measurement errors in censuses and surveys. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):359-374. 1961. French summary.

Presentation of: measures of correlation among response deviations; two alternative methods of designing experiments to obtain approximate estimates of the response variance or of specified components of the response variance; illustration of approximate estimates of response bias, and joint effect of various contributions to the MSE (mean standard error), for some 1950 U. S. census items.

4452 Jureček, Zdeněk.
Kategorie obyvatelstva zjišťované při sčítaní lidu [Population categories investigated by the population census]. Demografie (Prague) 3(2):97-102. 1961. Russian and English summaries.

Description of the categories and definitions relating to residence adopted for the 1961 census of population and housing in Czechoslovakia.

4453 Koller, S., et al.
Das Programm der Volks- und Berufszählung 1961 [The program of the census of population and occupations 1961]. Wirtschaft und Statistik (Wiesbaden) 13(4):209-220. April 1961.

Description of the organization of the census of June 6, 1961 in the German Federal Republic, exposition of the concepts and definitions for 13 groups of items in the enumeration schedule, and outline of plans for processing and making available the results. See also Title 4450, this issue.

4454 Macura, M., and Balaban, V.
Yugoslav experience in evaluation of population censuses and sampling. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):375-399. 1961. French summary.

A short review of the more important papers by the Federal Statistical Institute on the evaluation of the 1953 Population Census.

4455 Mahalanobis, P. C., and Lahiri, D. B.
Analysis of errors in censuses and surveys with special reference to experience in India. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):401-433. 1961. French summary.

Section 6, Sample survey for estimation of rate of growth of population, 1958-59, 1959-60.

4456 Midzuno, H.
On the post enumeration survey. Bulletin de l'Institut International de Statistique (Tokyo) 38(2):435-441. 1961. French summary.

A discussion of quality checks with especial reference to the ECAFE region.

4457 Spain. Instituto Nacional de Estadística.
Proyecto del censo de la población y de las viviendas de España de 1960 [Plan for

the census of population and housing of Spain, 1960]. Madrid, 1960. 69 pp.°

4458 United Arab Republic. Egypt. Central Statistical Committee.
[Training manual on procedures for the population Census.] Cairo, 1960. 413 pp. In Arabic.

4459 U. S. Office of Statistical Standards.
1960 Census small-area data available on magnetic tape. Statistical Reporter, No. 282, June 1961. Pp. 83-84.
"The Bureau of the Census has made available, at the cost of reproduction, summary data for small geographical areas for both complete count and sample items in the 1960 Census of Population and Housing.... Information on availability of tape files or of unpublished data may be obtained from Chief, Population Division, or Chief, Housing Division, Bureau of the Census."

4460 Anton, Werner.
Die allgemeine Arbeitsstättenzählung 1961 [The general census of work places 1961]. Wirtschaft und Statistik (Wiesbaden) 13(4):220-221. April 1961.
Report on continuing annual survey.

[See also Titles 4017, 4045, 4050, 4055, 4060, 4108, 4246, 4256, 4381, 4432, 4464, 4467, 4515, 4521]

Other Data Collecting and Processing

4461 Bantegui, Bernardino G.
Recent statistical development in the Philippines. American Statistician 14(4): 19-22. Oct. 1960.
Includes brief description of U.N.-NEC Demographic Pilot Study and other activities.

4462 Heikinheïmo, Lauri, et al.
Jatkuva työvoimatutkimus [The current labor force survey in Finland]. Tilastokatsauksia (Helsinki) 36(5):44-53. 1961. English summary; duplicate text in Swedish.
Report on methodology and findings of the continuing sample survey by the Bureau of Labor-Market Research begun in 1958. Tables give 1960 employment data by status and industry groups.
"In 1961 efforts will be made to break down the labor-force results by regions and classes. Separate results by sex and for rural areas, as well as monthly labor-force participation rates by age and sex, have been calculated since 1959, but not yet published."

[See also Titles 4010, 4017, 4029, 4055, 4066, 4077, 4185, 4186, 4189, 4223, 4224, 4251, 4256, 4257, 4310, 4320, 4343, 4349, 4384, 4388, 4398, 4431, 4437, 4438, 4447, 4466, 4467, 4474]

P. PROFESSIONAL MEETINGS AND CONFERENCES

4463 Agarwala, S. N., Editor.
India's population: some problems in perspective and planning. Bombay and London, Asia Publishing House, 1961. xl, 208 pp.
Papers presented at a seminar of the Institute of Economic Growth, Delhi, in 1959.
Contents:
Agarwala, S. N. Some projections of India's population. Pp. 3-20.
Chellaswami, T. Mortality and fertility trends and population growth in India (1956-76). Pp. 69-84.
Jain, S. P. Future growth of Indian population - an analysis. Pp. 21-58.
Raina, B. L. Family planning and demographic research in India. Pp. 173-177. Appendix: Governmental efforts at family planning in India. Pp. 178-197.
Datar, B. N. Population and employment in India. Pp. 107-114.
Rao, V. K. R. V. Population growth and its relation to employment in India. Pp. 87-106.
Sinha, J. N. Employment implications of population growth in India. Pp. 124-132.
Boserup, Mogens. Employment aspects of population growth in India. Pp. 133-136.
Dar, Usha. Some observations on labour participation based on family size. Pp. 137-139 and folding table.
Davenport, H. Employment and population growth in India. Pp. 115-118. Appendix: Unemployment in urban areas. Pp. 119-123.
Raja, K. C. K. E. Problems of demographic research in India. Pp. 161-172.
Som, Rajan K. Population trends and problems in India. Pp. 59-68.
Burdick, E. Douglass. Population policy in India. Pp. 155-157.
Chand, Gyan. Population policy of India. Pp. 151-154.

Chandrasekaran, C. Population policy in India. Pp. 143-150.

Freymann, Moye W. Observations on family planning—action research. Pp. 198-208.

4464 American Statistical Association.

Summaries of papers delivered at the 120th annual meeting of the ... Stanford, California, August 23-6, 1960. Journal of the ... 56(294):388-410. June 1961.

"... contains all available Abstracts of Papers presented at the 1960 meeting of the American Statistical Association at Stanford last August."

Partial contents:

Davis, Joseph S. Implications of prospective United States population growth in the 1960's.

Gershenson, Maurice I. Labor force projections for California.

Lacroix, Max. Scope and impact of the 1960 World Population Census Programs.

Parrott, A. F. The flight to the suburbs slackens.

Perrott, G. St. J. Population studies in health research.

Robinson, G. de B. Projecting enrollments at the University of Toronto.

Sabagh, Georges, et al. Urban concentration and occupational structure in the United States: 1900-1950.

Shyrock, Henry S., Jr. The concept of "usual residence" in the census of population.

Taitel, Martin. On problems of measuring the distribution of population in an urban area.

4465 American Statistical Association. Business and Economic Statistics Section.

Proceedings of the Business and Economic Statistics Section: papers presented at the annual meeting of the American Statistical Association, Stanford University, August 23-26, 1960, under the sponsorship of the Business and Economic Statistics Section. Washington, 1960. 330 pp.°

4466 Australian National University. Department of Demography.

The study of immigrants in Australia. Proceedings of Conference on Immigration Research convened by the Department of Demography ... Canberra, August 1960. Edited by C. A. Price. vii, 216 pp., processed. ["... an edited version of the papers, together with a summary of the discussion."]

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Price, C. A. A survey of the study of immigration and assimilation. Pp. 1-8.

Taft, R. Studies of migration and assimilation in Israel and the Netherlands. Pp. 9-11.

Zubrzycki, J. Sociological methods for the study of immigrant adjustment. Pp. 12-22.

Appleyard, R. T. Socio-economic determinants of British emigration from the United Kingdom to Australia. Pp. 25-29.

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4467 Commission for Technical Co-operation in Africa South of the Sahara. Comissão de Cooperação Técnica na Africa ao Sul do Sara.

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Contents include agenda and summary of discussions on population and demography, and recommendations for research and data collection.

4468 Deutsches Gesellschaft für Sexualforschung.

Über die menschliche Fortpflanzung.

Vorträge gehalten auf dem 5. Kongress der Deutschen Gesellschaft für Sexualforschung in Wien 1958 [Human reproduction. Papers of the fifth congress of the German Society for Sexual Research at Vienna, 1958]. Beiträge zur Sexualforschung, 16. Stuttgart, Ferdinand Enke Verlag, 1959. [v], 100 pp.

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4469 Family Planning Association of India.

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See also Title 4473, this issue.

4470 Harvard University, and the Association for the Aid of Crippled Children.

Control of ovulation. Proceedings of the conference held at Endicott House, Dedham, Massachusetts, 1960. Edited by Claude A. Villee. New York, Symposium Publications Division, Pergamon Press, 1961. x, 251 pp.

"The conference was held 'February 26-28, 1960 ... under the sponsorship of Harvard University and the Association for the Aid of Crippled Children, New York City.' Includes bibliographies." [L.C.C.D. July 1961].

4471 Inter-African Conference on Housing and Urbanisation, 2nd Session, Nairobi, 1959.

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4472 International Statistical Institute. Institut International de Statistique. Comité d'Organisation.

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Part 2. Communications [Papers]. 1961. [viii], 598 pp. and folding map. [For citations of individual papers of demographic interest see Titles 4001, 4002, 4015, 4023, 4081, 4084, 4153, 4256, 4257, 4267, 4311, 4320, 4339, 4341, 4345, 4349, 4431, 4433, 4434, 4437, 4451, 4454-4456, this issue.]

4473 Journal of Reproduction and Fertility.

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4474 Jugoslovensko Statistickog Drustvo [Yugoslav Statistical Society].

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Contents:

Ilesic, S. [Problems of economic-geographical regions in relation to statistical regions, with special regard to Slovenia.] Pp. 5-21.

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Novkovic, C. [Attempt of qualitative analysis and statistical definition of the term region.] Pp. 52-73.

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Macura, M., and Ginic, I. [Structure of settlements in the Belgrade region.] Pp. 89-115.

Vinski, I. [Regional estimates of national wealth.] Pp. 116-138

Miljkovic, D. [Some methodological

problems concerning the computation of national wealth in districts.] Pp. 139-150.

Juranovic, N. [Value of the indicators of employed personnel in industry for regional research.] Pp. 151-168.

Stanic, S. [Significance of transportation statistics for small areas.] Pp. 169-188.

Mikic, F. [Position and location of cadastral and political communes in demography; Croatia prior to World War II.] Pp. 189-211.

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4475 Pour la Vie.

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Contemporary China: a bibliography of reports on China published by the United States Joint Publications Research Service. New York, Joint Committee on Contemporary China, American Council of Learned Societies and the Social Science Research Council, 1961. 99 pp.°

4477 Swedish Institute for Urban History.

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4478 United Nations. Economic Commission for Africa.

Draft bibliography of African statistical publications. E/CN.14/65. New York, Jan. 6, 1961. xv, 190 pp., processed.°

4479 U. S. Bureau of the Census. Foreign Manpower Research Office.

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"... the first in a series of bibliographies of social science periodicals and monograph series published in Communist Bloc and other countries using so-called 'difficult' languages. The series in general will cover the period 1950-1960 ..."

4480 U. S. Office of Statistical Standards.

Special surveys of the labor force. An annotated bibliography. Statistical Evaluation Reports, Report No. 3. Washington, July 1960. v, 28 pp., processed.

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4481 Vignal, Thierry.

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Introductory comments, 150 references topically arranged, indexes of authors, subjects, and periodical publications. [P.R.T. 16(1)]

4482 Woytinsky, Emma S., Editor.

Bibliography of the writings of W. S. Woytinsky. Washington, D.C., May 1961. 27 pp.

"The arrangement of the bibliography is chronological and, at the same time, geographical, according to the countries in which my husband lived and worked.... The bibliography lists several unpublished

manuscripts." Topical index includes: census; employment; migration; population; unemployment.

[See also Titles 4007, 4011, 4018, 4027, 4029, 4040, 4041, 4045, 4055, 4060, 4066, 4114, 4180, 4279, 4307, 4340, 4363, 4365, 4366, 4368, 4454, 4492]

R. NEW PERIODICALS

4483 Mankind Quarterly.

The Mankind Quarterly: an international quarterly journal dealing with race and inheritance in the fields of ethnology, ethno- and human genetics, ethno-psychology, racial history, demography and anthropogeography. Edinburgh. Vol. 1. No. 1. July 1960.°

4484 Portugal. Provincia de Moçambique. Repartição de Estatística Geral.

Boletim Mensal de Estatística [Monthly Bulletin of Statistics]. Lourenço Marques. Vol. 1. No. 1. July 1960.

Section on demography presents recurring tables of data on vital statistics, deaths by age, cause, and ethnic group, and migration.

4485 Roosevelt University. Business Research Center.

Business and Society: a journal of interdisciplinary exploration. Chicago. Vol. 1. No. 1. Autumn, 1960.

S. OFFICIAL STATISTICAL PUBLICATIONS

NORTH AMERICA

Mexico

See Title 4061.

United States

4486 U. S. Bureau of the Census.

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Serial numbers for separate reports: 1. U. S. summary; 2. Alabama; 3. Alaska; 4. Arizona; 5. Arkansas; 6. California; 7. Colorado; 8. Connecticut; 9. Delaware; 10. District of Columbia; 11. Florida; 12. Georgia; 13. Hawaii; 14. Idaho; 15. Illinois; 16. Indiana; 17. Iowa; 18. Kansas; 19. Kentucky; 20. Louisiana; 21. Maine; 22. Maryland; 23. Massachusetts; 24. Michigan; 25. Minnesota; 26. Mississippi; 27. Missouri; 28. Montana; 29. Nebraska; 30. Nevada; 31. New Hampshire; 32. New Jersey; 33. New Mexico; 34. New York; 35. North Carolina; 36. North Dakota; 37. Ohio; 38. Oklahoma; 39. Oregon; 40. Pennsylvania; 41. Rhode Island; 42. South Carolina; 43. South Dakota; 44. Tennessee; 45. Texas; 46. Utah; 47. Vermont; 48. Virginia; 49. Washington; 50. West Virginia; 51. Wisconsin; 52. Wyoming; 53. Puerto Rico; 54. Guam; 55. Virgin Islands; 56. American Samoa; 57. Canal Zone.

4487. U. S. Bureau of the Census.

Census of population 1960. Final Reports. Series PC(1)-B. General population characteristics: data on age, race, household relationship, sex, marital status. Washington, 1960-.

This series of 57 reports are preprints that will be reissued as part of the bound Vol. 1 of the census. In June 1961 all of the individual reports, serially numbered like those in Title 4486, had appeared except nos. 1, 13, 32, 37, 38, 40, 45, 48, and 53-57.

4488 U. S. Bureau of the Census.

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2. Population of congressional districts,

April 1, 1960. [1961.] 7 pp.°

3. Population of United States and outlying areas 1940-60. June 8, 1961. 2 pp.°

4. Urban and rural population of United States, by States, 1960 and 1950. June 9, 1961. 4 pp.°

5. Population of urbanized areas, 1960 and 1950. June 14, 1961. 12 pp.°

4489 U. S. Bureau of the Census.

Censuses of population and housing 1960. Series PHC(2). Geographic identification code scheme. Washington, 1961-.

This series consists of 50 preprints of chapters, one for each state, identified by serial numbers 2-52 as listed in Title 4486, with nos. 9-10 issued as one chapter. Each part contains definitions of terms, the geographic codes for the areas covered, and an alphabetical list of place names. The separate chapters will be reissued in a single volume. In July 1961 all of the individual reports had been issued except nos. 3, 4, and 34.

4490 U. S. Bureau of the Census.

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Nos. 1-107. See 27: Title 2514.

108. Marriage, fertility, and childspacing: August 1959. July 12, 1961. 55 pp. Prepared by Wilson H. Grabill and Robert Parke, Jr. [Presentation, analysis, and evaluation of data collected from a national sample of about 35,000 households in the Current Population Survey of August 1959 and comparison with data of CPS surveys in 1957, 1954, and 1952 and with censuses of 1950 and 1940. Detailed tables include data for white and nonwhite marriage cohorts, first married 1900 to 1959, on children ever born by age of mother, birth order, and interval since first marriage.]

109. Households and families, by type: 1961. July 17, 1961. 5 pp.

110. School enrollment, and education of young adults and their fathers: October 1960. July 24, 1961. 15 pp.

111. Characteristics of households with telephones, March 1960. Aug. 2, 1961. 6 pp.

4491 U. S. Bureau of the Census.

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Nos. 1-227. See 27: Title 3127.

228. Estimates of the population of the United States January 1, 1950, to April 1, 1961. May 15, 1961. 2 pp.

229. Preliminary intercensal estimates of the population of states July 1, 1950 to 1959. May 22, 1961. 7 pp.

230. Provisional estimates of the population of states July 1, 1960. May 25, 1961. 2 pp.

231. Estimates of the population of the United States January 1, 1950, to May 1, 1961. June 14, 1961. 2 pp.

232. Illustrative projections to 1980 of school and college enrollment in the United States. June 22, 1961. 12 pp.

233. Estimates of the population of the United States, January 1, 1950, to June 1, 1961. July 14, 1961. 2 pp.

4492 U. S. Bureau of the Census.

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Nos. 1-1277. See 27: Title 3494.

1278. Special census of Glendale, Wisconsin, March 20, 1961. May 16, 1961. 1 p.

1279. Summary of special censuses and the 1960 population of areas annexed to municipalities and of new incorporations after the decennial census: January 1 to March 31, 1961. May 18, 1961. 2 pp.

1280. Summary of special censuses and of the 1960 population of areas annexed to municipalities and of new incorporations: April 1 to June 30, 1961. July 28, 1961. 1 p. ["A corresponding summary for the period between April 1 and December 31, 1960, is available in report No. 1276 of this series. These data for the first quarter of 1961 are available in report No. 1279. Separate reports on special censuses have been issued for only those areas having 10,000 inhabitants or more."]

4493 U. S. Bureau of the Census.

Current Population Reports. Series P-60. Consumer income. Washington, 1948-.

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36. Average income of families up slightly in 1960. June 9, 1961. 4 pp.

4494 U. S. National Office of Vital Statistics.

Vital statistics of the United States 1959. Washington, 1960. In 2 vols.

Vol. II. Mortality statistics for the United States and each State. V, 554 pp.

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4495 U. S. National Office of Vital Statistics.

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4496 U. S. National Office of Vital Statistics.

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4497 U. S. Bureau of Labor Statistics.

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13. Marital and family characteristics of workers, March 1960. By Jacob Schiffman. Reprint No. 2364 from the Monthly Labor Review 84(4):355-364. April 1961. Supplementary material, pp. A-1—A-26.

14. Labor force and employment in 1960. By Robert L. Stein and Herman Travis. Reprint No. 2365 from the Monthly Labor Review 84(4):344-354. April 1961. Supplementary material, pp. A-1—A-42.

15. Employment of June 1960 high school graduates. By Sophia Cooper. Reprint No. 2367 from the Monthly Labor Review 84(5):463-470. May 1961. Supplementary material, pp. A-1—A-9.

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4498 U. S. Bureau of Labor Statistics. Western Regional Office.

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[See also Title 4044, 4290]

SOUTH AMERICA

Brazil

4499 Brazil. Comissão Censitaria Nacional.

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French Guiana

4500 France. Institut National de la Statistique et des Etudes Economiques.

Annuaire statistique de la Guyane, 1957-1959 [Statistical yearbook of Guiana, 1957-1959]. Paris, Imprimerie Nationale, for Institut National de la Statistique et des Etudes Economiques, 1961. 63 pp.

Sections on population and on public health.

EUROPE

Austria

See Title 4099.

Bulgaria

4501 Bulgaria. TSentralno Statistichesko Upravlenie.

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4502. Denmark. Statistiske Departement.

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Includes data on internal and external migration.

Finland

See Title 4151.

France

See Title 4100.

Greece

4503 Greece. Office National de Statistique.

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See 27: Title 1506 for citation of previous issues. In this volume certain tables have been omitted to make place for comparisons with prewar data.

Hungary

4504 Hungary. Kozponti Statisztikai Hivatal. Budapest Varosi Igazagatosaga.

Budapest statisztikai zsebkonyve, 1960 [Statistical yearbook of Budapest, 1960]. Budapest, 1960. 299 pp.°

Italy

4505 Italy. Istituto Centrale di Statistica.

Annuario di statistiche demografiche 1958 [Yearbook of population statistics 1958]. Rome, 1961. 395 pp.

For citation of the volume for 1957 see 26: Title 3566.

Malta

4506 Malta. Central Office of Statistics.

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Portugal

4507 Portugal. Instituto Nacional de Estatística.

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4508 Romania. Institutul Central de Statististica.

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4509 Romania. Central Statistical Office.

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Census 1961, England and Wales. London, H. M. Stationery Office, 1961-.

Preliminary report. 1961. iii, 80 pp.

4511 Great Britain. Ministry for Welsh Affairs.

Wales: digest of Welsh statistics, No. 6,

1959. London, H. M. Stationery Office, 1960. IV, 80 pp.

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Yugoslavia

4512 Yugoslavia. Savezni Zavod za Statistiku.

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For citation of 1957 volume see 26: Title 4587.

U.S.S.R.

4513 U.S.S.R. Dnepropetrovsk Oblast. Statisticheskoe Upravlenie.

Narodne hospodarstvo Dnipropetrovs'koi oblasti: statistichnii zbirnik [People's economy of Dnepropetrovsk Oblast: statistical handbook]. [Dnepropetrovsk], Dnipropetrovs'ke Knizhkove Vid-vo, 1960. 221 pp.°

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China

4514 China. Republic. Taiwan Shêng Hu K'ou P'u Cha Ch'u [Taiwan Province Census Office].

Chung hua min kuo hu k'ou p'u cha pao kao shu [Republic of China. Reports on the investigation of households and population]. 3 vols. in 10 parts. Taipei, 1959.°

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1. Hu k'ou tsung piao chi jên k'ou chi pieh [General tables on households and population and place of registry]. 816 pp.

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3. Jen k'ou chih chiao yü ch'êng tu [Educational levels of the population]. In 2 parts. Pp. 1-888; 889-1680.

4. Jên k'ou chih hang yeh [Industry of the population]. 838 pp.

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4515 China. Republic. Chung Hua Min Kuo, Hsing Chêng Yüan, Hu K'ou P'u Ch'a Ch'u [Republic of China. Executive Yuan. Office of the Census].

Hu k'ou p'u ch'a jên yüan shou ts'ê [Handbook for census personnel]. [Taipei], Taiwan Province Census Office, 1956. 242 pp.°

4516 China. Republic. Chung Hua Min Kuo, Hsing Chêng Yüan, Chu Chi Ch'u [Republic of China. Executive Yuan. Directorate General of Budgets, Accounts and Statistics].

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4517 China. Republic. Chung Hua Min Kuo, Hsing Chêng Yüan, Chu Chi Ch'u [Republic of China. Executive Yuan. Directorate-General of Budgets, Accounts, and Statistics].

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1. Characteristics of family households, 1951 census—West Bengal. 1960. V, 535 pp.°

Japan

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Population of Japan. Summary of the results of 1955 population census of Japan. Tokyo, 1960. [ii], IX, 604 pp. English summary and titles.

"In this report are presented the important statistics in their abridged form derived from the volumes of the 1955 Population Census. Some analyses are made to describe the population structure in this country in comparison with the results of previous censuses. This report was compiled in place of the 'final report' which was to be published as the Volume VI of the Reports on the 1955 Population Census."

See 26: Title 4597 for citation of previously issued volumes.

4520 Japan. Bureau of Statistics.
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De jure population by shi (city), ku (ward), machi (town), and mura (village).

Malaya

4521 Malaya. Federation of Malaya. Department of Statistics.
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14. Final report - summary tables for the Federation, with general comments on the Census. By H. Fell. 1960. [viii], 181 pp. [Chapters: Numbers, composition and distribution; Urban growth; Race and specific community; Birthplace and migration; Literacy; Occupation and industry; Accuracy of census statements of age; Life tables; Reproduction rates and population projections.]

Philippines

4522 Philippines. Bureau of the Census and Statistics. Philippine Statistical Survey of Households.
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Singapore

4523 Singapore. [Registry General].
Report on the registration of births and deaths, marriages, and persons for 1959. By S. C. Chua et al. Singapore, Govt. Publications Bureau, 1960. V, 97 pp.

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Thailand

4524 Thailand. Central Statistical Office.
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Algeria

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Uganda

See Title 4283.

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4533 United Arab Republic. Egypt. Statistical Department.

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4534 New Zealand. Department of Statistics.

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[See also Title 4197]

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4536. France. Service de Statistiques Chargé des Relations et de la Coopération avec les Etats d'Outre-Mer.

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STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES

IN SELECTED COUNTRIES /a

These figures are the most recent available since 1939 and are, with some exceptions, for countries with populations of 100,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Barbados /1	1945-47	M	49.17	57.43	51.82	42.66	26.05	13.23
		F	52.94	61.64	55.80	46.79	30.39	15.80
British Honduras /2	1944-48	M	44.99	50.48	46.86	38.78	25.29	13.18
		F	48.97	54.29	49.95	42.18	29.22	15.94
Canada	1955-57	M	67.61	69.04	60.67	51.19	32.74	16.54
		F	72.92	73.99	65.51	55.80	36.69	19.34
Costa Rica	1949-51	M	54.65	59.97	55.59	46.50	29.70	14.85
		F	57.05	61.58	57.22	48.00	31.21	15.84
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
Guadeloupe and Martinique /3	1951-55	M	55.4	58.1	52.1	42.8	26.4	13.8
		F	59.2	61.4	55.4	46.1	30.3	16.5
Guatemala	1949-51	M	43.82	48.28	48.56	41.08	26.86	14.73
		F	43.52	47.17	47.68	40.27	26.94	14.26
Jamaica (ex. dep.)	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Leeward Islands /4	1946	M	49.53	55.03	50.17	41.19	26.06	-
		F	54.76	59.58	54.44	45.63	29.90	-
Mexico /b	1950	M	46.67	52.35	51.12	42.73	28.24	15.32
		F	49.85	54.92	54.36	45.80	30.38	15.96
Panama /5	1952-54	M	60.41	63.31	57.87	48.98	31.88	16.76
		F	63.09	65.78	60.29	51.34	34.70	19.15
Trinidad and Tobago ...	1954-56	M	59.81	63.17	55.67	46.22	28.43	13.53
		F	63.13	65.81	58.15	48.79	31.62	16.51
U. S., Continental /6c ..	1958	M	66.4	67.5	59.0	49.4	31.1	15.6
		F	72.7	73.5	64.9	55.2	36.2	19.1
Whites /c	1958	M	67.2	68.1	59.5	50.0	31.5	15.7
		F	73.7	74.2	65.6	55.9	36.7	19.2
Nonwhites /c	1958	M	60.6	62.8	54.5	45.0	28.0	14.5
		F	65.5	67.3	59.0	49.3	31.5	17.4

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages
in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Bolivia	1949-51	M	49.71	56.11	54.79	46.99	33.40	20.39
		F	49.71	55.92	54.79	47.23	32.89	19.20
Brazil /7	1940-50	M	39.3	-	44.6	37.9	24.3	12.5
		F	45.5	-	-	-	-	-
British Guiana /8	1945-47	M	49.32	53.66	47.63	38.71	23.03	11.13
		F	52.05	55.89	49.79	41.32	27.30	14.18
Chile	1952	M	49.84	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /d	1950-51	M	56.34	60.54	55.11	46.18	29.84	15.70
		F	58.76	62.37	57.29	48.29	32.27	17.48
Europe								
Austria	1949-51	M	61.91	65.90	58.02	48.68	30.74	15.12
		F	66.97	70.09	62.15	52.62	34.20	17.27
Belgium	1946-49	M	62.04	65.25	57.36	48.02	30.61	15.45
		F	67.26	69.72	61.71	52.27	34.20	17.45
Czechoslovakia	1958	M	67.23	68.51	60.11	50.59	32.10	15.75
		F	72.30	73.15	64.64	54.90	35.79	18.22
Denmark	1951-55	M	69.87	71.16	62.74	53.09	34.38	17.50
(ex. Faeroes)		F	72.60	73.35	64.78	54.99	35.89	18.44
Finland	1951-55	M	63.4	64.7	56.5	47.0	29.2	14.1
		F	69.8	70.9	62.5	52.8	34.2	16.9
France /e	1959	M	67.0	68.0	59.5	49.9	31.6	15.8
		F	73.6	74.2	65.7	55.9	37.0	19.5
Germany								
Democratic Rep.	1956-57	M	66.34	68.96	60.81	51.28	32.85	16.23
		F	71.03	72.98	64.59	54.85	35.96	18.46
Federal Rep.	1958-59*	M	66.67	68.38	59.99	50.47	32.07	15.66
(ex. Saar)		F	71.72	73.02	64.51	54.75	35.70	18.13
Hungary	1958*	M	65.12	68.57	60.32	50.78	32.37	15.95
		F	69.36	71.96	63.64	53.95	35.05	17.66
Iceland	1941-50	M	66.1	67.4	59.5	50.5	34.3	18.2
		F	70.3	71.3	63.2	54.0	36.5	19.6
Ireland	1950-52	M	64.53	66.88	58.81	49.31	31.31	15.40
		F	67.08	68.80	60.61	51.15	33.28	16.83
Italy	1954-57	M	65.75	68.54	60.53	51.04	32.52	16.23
		F	70.02	72.43	64.37	54.68	35.76	18.20
Luxembourg	1946-48	M	61.69	65.17	57.36	48.04	30.26	15.08
		F	65.75	68.59	60.78	51.51	33.43	16.87

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages
in Selected Countries (Continued)

Country	Years	Sex	Age					
			0	1	10	20	40	60
Netherlands	1953-55	M	71.0	71.8	63.4	53.7	34.8	17.8
		F	73.9	74.3	65.7	56.0	36.7	18.9
Norway	1951-55	M	71.11	71.95	63.65	54.11	35.54	18.52
		F	74.70	75.21	66.72	56.96	37.79	19.93
Poland	1958	M	62.8	67.5	59.4	49.9	31.7	15.6
		F	68.9	72.9	64.7	54.9	35.8	18.8
Portugal	1957-58	M	59.8	64.9	58.9	49.4	31.4	15.4
		F	65.0	69.7	63.7	54.1	35.5	18.1
Spain	1950	M	58.76	63.12	56.54	47.50	36.65	15.18
		F	63.50	67.63	61.16	52.03	34.55	17.69
Sweden /f	1959	M	71.69	71.98	63.45	53.84	35.03	17.75
		F	75.24	75.25	66.57	56.75	37.43	19.49
Switzerland	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.86	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales	1959	M	68.1	68.8	60.2	50.6	31.6	15.1
		F	73.8	74.3	65.6	55.8	36.6	19.0
Northern Ireland	1957-59	M	67.44	68.55	59.97	50.31	31.42	15.16
		F	71.82	72.77	64.15	54.35	35.15	17.83
Scotland	1959	M	66.00	67.16	58.65	48.97	30.13	14.24
		F	71.44	72.22	63.63	53.84	34.71	17.56
Yugoslavia	1952-54	M	56.92	63.47	57.54	48.29	30.56	14.93
		F	59.33	65.32	59.65	50.41	32.86	16.41
U. S. S. R.	1957-58	M	64	-	-	-	-	-
		F	71	-	-	-	-	-
Asia								
Cambodia /9	1958-59	M	44.2	49.6	47.6	39.4 10/	27.5 11/	14.5
		F	43.3	48.5	46.4	38.4 10/	28.1 11/	15.4
Ceylon	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8
Cyprus	1948-50	M	63.6	67.3	60.3	50.9	32.9	16.9
		F	68.8	72.6	65.4	55.8	37.2	19.5
India /12	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1959	M	70.23	71.36	62.87	53.21	34.17	17.09
		F	72.26	73.25	64.65	54.86	35.77	18.43
Japan /13	1959	M	65.21	66.66	58.81	49.31	31.30	15.16
		F	69.88	71.05	63.06	53.45	35.08	18.10
Philippines	1946-49	M	48.81	54.74	54.64	45.98	31.14	17.72
		F	53.36	58.62	56.22	47.27	32.26	18.45
Ryukyu Islands	1955-57	M	65.8	65.5	58.3	48.9	31.7	16.3
		F	72.0	71.7	64.4	55.2	37.4	20.2

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age					
			0	1	10	20	40	60
Thailand	1947-48	M	48.69	52.00	47.87	39.81	25.56	12.69
		F	51.90	55.20	50.90	42.71	28.43	14.20
Africa								
Congo (Leopoldville) /14								
African Population /15	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Kenya								
European population	1946-49	M	63.8	64.8	56.5	47.8	30.3	15.5
		F	69.3	70.8	62.8	53.4	34.9	17.8
Mauritius (ex. dep.)	1951-53	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Réunion	1951-55	M	47.50	53.80	49.80	40.80	25.10	12.40
		F	53.40	59.30	56.10	47.10	31.40	16.90
Union of South Africa								
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Coloureds	1945-47	M	41.70	47.81	44.92	36.83	23.97	13.16
		F	44.00	49.53	47.01	39.42	27.26	14.97
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Oceania								
Australia /16	1953-55	M	67.14	67.86	59.53	50.10	31.65	15.47
		F	72.75	73.22	64.78	55.06	36.00	18.78
Hawaii	1949-51	M	67.76	68.77	60.36	50.86	32.41	16.79
		F	71.29	71.86	63.37	53.71	34.87	18.42
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

NOTES TO TABLE

* Provisional.

1/ Values for ages 0 and 1 derived from mortality rates estimated on the basis of data for Trinidad and Tobago.

2/ Values for ages 1 and 2 derived from mortality rates computed on population assumed to have same age distribution as Jamaica, 1946.

3/ Similarity in mortality and advantages of greater stability in larger numbers led to decision to compile life table on combined experience.

4/ Colonies of Antigua, Montserrat, St. Kitts-Nevis and Anguilla, and the Virgin Islands (United Kingdom), the last of which is not a member of the West Indies Federation.

5/ Excluding tribal Indians and Canal Zone.

6/ Excluding data for Alaska and Hawaii, which became the 49th and 50th States of the Union on 3 January and 21 August 1959, respectively. Data for Hawaii are shown separately below.

7/ Data are for population born in Brazil and are derived from mortality rates based on apparent survivorship rates between censuses.

8/ Excluding Amerindians.

9/ Values derived from results of April 1959 rural demographic sample survey in 345 villages.

10/ For age 35.

11/ For age 55.

12/ Values derived from mortality rates based on apparent survivorship rates between censuses except values for ages under 5 and for 60 which are estimated. Data are for States of Uttar Pradesh, Bihar, Orissa, Assam, Manipur, Madras, Mysore, Travancore-Cochin, Coorg, Bombay, Saurashtra, Kutch, Madhya Pradesh, Madhya Bharat, Hyderabad, Bhopal, and Vinhya Pradesh.

13/ Japanese nationals in Japan only.

14/ Formerly Belgian Congo; declared independent 30 June 1960.

15/ Obtained from sample surveys of about 3.6 per cent of indigenous population.

16/ Excluding full-blooded aborigines.

Sources

a/ Unless otherwise noted figures were taken from: United Nations Statistical Office. Demographic Yearbook 1960. Table 23.

b/ Mexico. Almaraz Ugalde, A., and Bravo Becherelle, M. A. "Tablas de vida para la República Mexicana en 1950." Revista del Instituto de Salubridad y Enfermedades Tropicales, Vol. 15, No. 1, March, 1955. Pp. 48-49.

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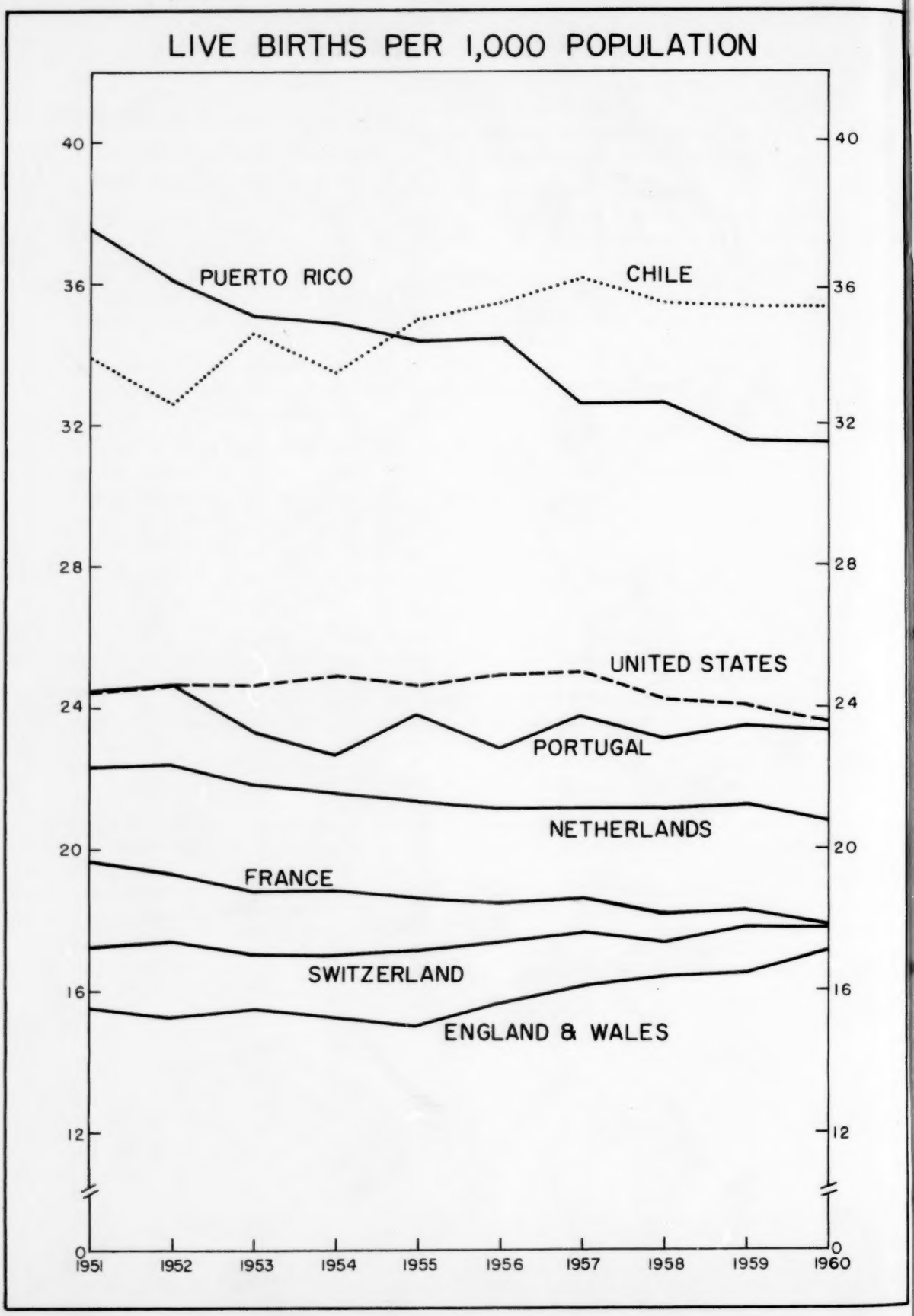
LIVE BIRTHS PER 1,000 POPULATION
PUERTO RICO
CHILE
UNITED STATES
PORTUGAL
NETHERLANDS
FRANCE
SWITZERLAND
ENGLAND & WALES
40
36
32
28
24
20
16
12
0
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960

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POPULATION INDEX

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NOTES ON SOURCES

The following lists of current bibliographies and of other periodicals comprise those checked through regularly in the preparation of Population Index. The endeavor is to see each issue as promptly as possible, though some lags are unavoidable. In addition, a number of other bibliographies and periodicals are seen less consistently. In the list of periodicals, medical, geographical, agricultural, historical, political, and East European literature is lightly represented, because primary reliance has been placed upon outstanding bibliographies, notably on the Index Medicus, Current Geographical Publications, the Bibliography of Agriculture of the U. S. Department of Agriculture, the American Historical Review, the American Political Science Review, and the East European Accessions Index and Monthly Index of Russian Accessions of the Library of Congress. This listing of sources excludes statistical and other official publications that do not contain substantive articles, serial publications that are not periodical, and of course, the books and monographs seen.

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